



**HARDWORKING TOOLS FOR
HARDWORKING PROFESSIONALS**

| MAINTENANCE



| ELECTRICAL



| SECURITY



| NETWORKING





HARDWORKING TOOLS FOR HARDWORKING PROFESSIONALS



For over a century, the Triplett brand of Test & Measurement products have provided reliable, durable and affordable solutions to contractors of all types, as well as maintenance personnel, engineers and DIYers. Our success is attributed to products geared towards Electrical, Security/CCTV and Networking industries and we take great pride in providing the right solutions for your everyday needs.

Our legacy Analog Multimeters that were introduced over 60 years ago continue to be one of the strongest driving forces in Triplett's Electrical product line. Our CCTV Camera Testers, Baluns and broad range of connectors provide cost saving solutions in the Security markets and our Network and Cable Testing products are unique in their functionality and testing capabilities.

At Triplett we recognize that our product offering must meet today's demands of working harder, smarter & with limited resources. That's why we are introducing over 85 new products in a multitude of industries including maintenance and environmental measurements to provide you with hardworking tools you need to get your job done faster & easier!

Please take a moment and browse our catalog that is full of essential products for the contractor whether they are in the Security, CCTV, Networking, Electrical, HVAC and Maintenance, Repair and Operations (MRO) industries.

Arpineh Mullaney
General Manager
Triplett Test Equipment & Tools

triplett.com



Over 85 NEW PRODUCTS Inside!



CO2 Meters

IR & K Type Thermometers

Borescopes

Food & IR Thermometers

Dew Point & Wet Bulb

Hygro-Thermometers

Water Quality Meters

Coating Thickness Testers



Security Camera Testers



8174 CamView7 Security Camera Tester & Spectrum Analyzer

7" Camera Tester with advanced capabilities and up to 16 hr battery life

Features:

- 7" Retina touch screen (1920 x 1200 resolution)
- Works with SD Analog, AHD 3.0, HD-CVI 3.0, HD-TVI 3.0, H.264, H.265 IP, NTCS/PAL and all ONVIF enabled IP cameras
- HDMI input & output supports up to 1080p
- Network testing includes: Ping, IP scan, Port Flash, DHCP server, Trace Route
- Built-in Wi-Fi analyzer with 2.4G signal strength tester and hot spot generator; Chrome browser included
- Dual 1000M LAN ports, to check network bandwidth, packet loss or error data
- 4x Zoom to enlarge on screen image, screen snapshot, screen record, save, view, record and playback video
- DC 24V 2A Power output. 24W, 48V DC PoE Power output / DC 12V 3A
- Rapid ONVIF
- Comes complete with Network Tester and remote wand, 12V DC 2A Adaptor, 8GB SD Card, Li-Po Battery (7.6V DC 7800mAh), BNC, RS485, Audio, DC power cables, safety cord and carrying case
- 1 year warranty



SECURITY & CCTV NETWORKS

Specifications



CVBS	1 channel BNC input & 1 channel BNC looped output, NTSC/PAL (Auto detect) Analog video level meter, peak video signal level, SYNC signal level, Color bar chroma level measurement PTZ control, RS485 control, Baudrate 600-115200bps
CVBS loop test	Send and receive color bar generator signal, check BNC cable
IP camera test	IP Discovery / Quick ONVIF / IPC test / IPC viewer / RTSP Player / Client APKs / Auto HD - Auto Detect Type
Rapid Video	Auto Login to view the video and create test report
IP & CVBS test	Test IP & CVBS video simultaneously, utilizing dual test window feature
Color bar generator	Output one channel PAL/NTSC color bar video signal for testing monitor or video cable, 24V DC 2A Power Out
Cable tracer	Trace BNC, network and telephone cables
UTP cable test	Test UTP cable connection status and display on the screen. Read the number on the screen
RJ45 cable TDR test	Test cable pair status, length, attenuation, reflectivity, impedance, skew etc. (max range 180m)
Data Monitor	Captures and analyses the command data from controlling device; can also send hexadecimal data
PoE test	Measures POE switch or PSE power supply voltage and cable connection status
External power supply	DC 12V 2A
Battery	Built-in 7.6V Lithium polymer battery, 7800mAh
IPC Protocol	ONVIF, RTSP, RTP
485 PTZ test	More than 30 protocols
Dimension/Weight	240mm x 154mm x 46mm / 620g

Ordering Information:

8174 CamView7 Security Camera Tester & Spectrum Analyzer

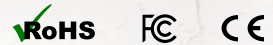


8075 CamView IP Pro-X

Security Camera Tester with advanced cable & network capabilities

Features:

- 7" TFT touchscreen (1920 x 1200), 16.7M colors
- Works with SD Analog, AHD 3.0, HD-CVI 3.0, HD-TVI 3.0, H.264, H.265 IP, NTCS/PAL, and all ONVIF enabled IP cameras
- USB, BNC, RJ45 and HDMI ports
- WiFi for connecting to WiFi cameras and to create a WiFi hotspot
- 25W PoE and 12VDC camera outputs
- Built-in DHCP server to set up IP cameras before the network is even wired
- RS485 PTZ Control
- Built-in Wi-Fi analyzer with 2.4 and 5G signal strength tester and hot spot generator; Chrome browser included
- Network Testing includes: Network Sniff, Subnet List and Ping Test
- TDR and RJ45 Cable Test
- Comes complete with (2) Li-ion batteries, Universal AC adapter/charger with 4 plugs, Ethernet cable, BNC/BNC cable, micro USB to USB cable, RS485 cable with extra screw terminal, audio cable, 12V camera power cable, lanyard and carrying case



Dual Rechargeable Batteries

The Tester can provide 12VDC (not to exceed 2A) to power the camera from dual rechargeable batteries.



Specifications

IPC Protocol	ONVIF, RTSP, RTP
Ethernet Test	10/100M/1G detect; Loop detect; DHCP client & server; traffic detect; datalink quality detect
IPC Test	Discover the device, real time video, camera config, PTZ test, discover ONVIF device
WiFi Test	Supports 2.4G & 5G; WiFi connection; WiFi list; Delay detection; packet loss rate test
Spectrum Test	Spatial frequency band signal scanning & detection; spatial noise signal detection
POE Test Power	PSE test -The tester supplies power (25W) / PD test-receives the power (802.3af/802.3at)
Analog Video Test	NTSC/PAL/HD-CVI 3.0/AHD 3.0/HD-TVI 3.0 Video In/Out BNCs; supports 8 level digital zoom
Color bar generator	Output one channel PAL/NTSC color bar video signal for testing monitor or video cable, 24V DC 2A Power Out
12V Power Output	12V/2A output interface
TDR Test	Test network cable (4 pair) length; Max 427 to 656ft (130 to 200m); Accuracy 3.3ft (1m)
485 PTZ test	More than 30 protocols
Display	7" TFT touchscreen , 1920 x 1200, 16.7M colors
Power	(2) Lithium-ion batteries; 10 hour work time
Dimensions/Weight	9.3 x 5.2 x 1.8" (236.5 x 133.4 x 45.4mm) / 2lbs (907g)

Ordering Information:

- 8075 CamView IP Pro-X 7" IP Security Camera Tester
- 37-99 7.4V 18.5Wh Lithium Ion Battery



Security Camera Testers

807x Camview IP Pro Series

Designed to facilitate the installation and maintenance of surveillance video equipment

SECURITY & CCTV NETWORKS



Flip-Out QWERTY Keyboard for Quick Entry of Information

RoHS FC CE



Complete with Lanyard, Rechargeable Battery, Tool Bag with Shoulder Strap, POE Power Injector, Network Cable, BNC Cable, RS485 Cable, 12V Power Output Cable, Audio Cable, USB Cable and Test Leads (8073 only)

Features:

- 8070 IP Pro works with IP and NTSC/PAL cameras
- 8071 IP Pro+ supports H.264 IP cameras, as well as NTSC/PAL and AHD 1.0 and HD-TVI 2.0 analog video cameras up to 2MP
- 8073 IP Pro-D supports H.264 and H.265 IP cameras, as well as NTSC/PAL, AHD 2.0, CVI 3.0, and TVI 3.0 cameras up to 8MP and has a built-in True RMS multimeter
- 8071 and 8073 work with both SD and HD analog NTSC/PAL camera systems

All models:

- 4.3" LCD Display
- Work with or without a network
- Built-in DHCP server allows you to set & Assign IP addresses to cameras, auto-detect IP settings on networks and Ping, Sniff, List Subnet
- POE for IP cameras or 12VDC to analog cameras
- RS485 port for PTZ control of analog PTZ cameras
- PoE and external power for the camera (up to 12V, 15W)
- Code Book so you can save usernames and passwords of the cameras you frequently access/maintain
- Ethernet and network tests; capture images, videos, and camera settings so you can create reports
- Check microphone/audio sources and even provide a bright flashlight function
- Both recorded images and video can be transferred to PCs or other devices via the USB port connection
- TDR cable testing and network testing



Specifications

ENCODING	8070	8071	8073
SD Analog	X	X	X
AHD 2.0	X	X	X
AHD 3.0			X
HD-CVI 2.0			X
HD-CVI 3.0			X
HD-TVI 2.0		X	X
HD-TVI 3.0			X
IP (ONVIF only)	X	X	X
H.264	X	X	X
H.265			X
FEATURES			
DHCP Server	X	X	X
MJPEG	X	X	X
12VDC Output	X	X	X
POE Output	15W	15W	15W
TDR Testing	Ethernet only	Ethernet only	Ethernet only
Digital Multimeter			X
RS485 PTZ	X	X	X
Digital Zoom	X	X	X
Data Monitor	X	X	X
Analog Video Generator	X	X	X
HD Video Generator			up to 1080P 30fps
Record Snapshot	X	X	X
Record Video	X	X	X
Camera Report	IP only	IP only	IP only
File Export	X	X	X
Keyboard	Full QWERTY	Full QWERTY	Full QWERTY
Flashlight	X	X	X
PHYSICAL FEATURES			
Screen	Backlit 4" 16.7M color TFT	Backlit 4" 16.7M color TFT	Backlit 4" 16.7M color TFT
Resolution	800 x 480	800 x 480	800 x 480
INPUTS			
BNC & RJ45	X	X	X
OUTPUTS			
BNC & RJ45 & Mini USB	X	X	X
Dimensions	7.5 x 4.4 x 1.5" (190 x 113 x 37mm)	7.5 x 4.4 x 1.5" (190 x 113 x 37mm)	7.5 x 4.4 x 1.5" (190 x 113 x 37mm)
Weight	3.5lbs (1.6kg)	3.5lbs (1.6kg)	3.5lbs (1.6kg)

Ordering Information:

- 8070 Triplett CamView IP PRO
- 8071 Triplett CamView IP PRO+
- 8073 Triplett CamView IP PRO-D
- 37-71 Battery, LIPO, 3000MAH, 7.4V



Security Camera Testers

8150 CamView5 Security Camera Tester

5 inch tester with HDMI out (1080P)

Features:

- All-in-one CCTV Tester
- 5-inch IPS touch screen, 1920x1080 resolutions
- 8MP CVI/ TVI/ AHD camera test
- H.265/H.264, 4K video display via mainstream
- HDMI output, support 1080P
- DC12V 3A, 48V PoE power output
- Rapid ONVIF, Create the test report and modify IP address, etc.
- Auto HD, auto recognize HD coax camera type and resolution
- RJ45 TDR cable test, cable quality test
- UTP cable test, detect open, shorts, mis-wiring
- Works 4 hours after a 2~3 hour charge
- Includes 7.4V Li-ion battery, AC adapter/charger, DC power cable, BNC cable, RS485 cable, audio cable, wrist strap and carrying case
- 1 year warranty



8066 CamView IP Pro-8W HD CCTV Tester

User-friendly wrist-mount design



Features:

- Designed for the maintenance and installation of IP cameras, analog cameras, TVI, CVI, AHD cameras, as well as testing 4K H.264 / 4K H.265 cameras by mainstream
- Has PoE (24W) and DC power output (12V/3A)
- 4" TFT test screen display
- Includes Hikvision and Dahua apps
- Includes Li-ion battery, AC adapter/charger, BNC/BNC cable, RS485 cable, audio cable, 12V camera power cable, wrist strap and carrying case
- 1 year warranty

Specifications

	8150	8066
IPC Protocol	ONVIF, RTSP, RTP	
Network Test	10/100/100M detect; IP address scan, ping, packet test, DHCP server; trace route; link monitor	
Rapid IP Discovery	Discover the IP address in the connected device's network segment	
WiFi	Display upload/download connection speeds; create a Wifi hotspot	
IP Camera Test	Display image from the 4K H.265 camera by mainstream	
Data Monitor	Capture and analyze the command data from controlling device; can also send hexadecimal	
Video Test	NTSC/PAL/HD-CVI 3.0/AHD 3.0/HD-TVI 3.0	
Audio Test	1 channel audio signal input	
PTZ Control Test	Support RS485; Compatible with more than 30 protocols	
Lens Simulation	Simulate different lens display areas: 2.8, 3.6, 4, 6, 8, 12, 16, 25mm	
POE Test Power	48V power output; Max power 24W	
12V Power Output	12V/3A output interface	
HDMI Output	Yes	---
Snapshot/Video	Capture and record images and live video with playback	
Memory	Internal: 3.2GB; External: optional microSD 32GB max	
Display	5" IPS Touch, 1920 x 1080	4" IPS Touch, 800 x 480
Power	Lithium-ion battery 5 hour work time	Lithium-ion battery 8 hour work time
Dimensions	7.2 x 4.3 x 1.4" (183 x 110 x 36.5mm)	5 x 3.3 x 1.3" (126 x 83 x 33mm)



Ordering Information:

8150	CamView5 Security Camera Tester
8066	CamView IP PRO-8W HD CCTV Tester



8064 CamView Analog Camera Tester

Powerful, portable, and designed with the technician in mind



Features:

- Analog Testing for up to 8MP cameras
- 16M color, backlit 4.3" TFT display
- Designed to facilitate the installation and maintenance of surveillance video equipment using Standard Definition analog NTSC/PAL(Auto-Recognizing), HD-TVI, HD-CVI and AHD camera systems
- HD Coaxial and RS485 PTZ Control – Supports more than 30 Protocols
- 12VDC/1A output
- Check microphone/audio on the camera
- Rechargeable, long-lasting Lithium Polymer Battery
- Includes camera tester, Lithium-Ion Battery, AC Adapter/Charger, BNC/BNC Cable, RS485 Cable, Audio Cable, 12V Camera Power Cable, Wrist Strap, Carrying Case
- 1 year warranty



IPAS10-N Answer Stick IP Camera POE Tester

Must have tool for IP Camera installers



Assembled in the USA

Features:

- Passes POE power through to the camera and has a port to connect your notebook computer
- In line Laptop connection for configuring/troubleshooting PD devices
- Align/focus an IP camera on the jobsite using a laptop and camera software
- Configure a router or an access point at its location
- Color LEDs indicate PoE volts, watt draw and link activity
- No battery required
- 1 year warranty



USB-Bug™ USB Tester and Data Masker

Test the power, voltage, and current of USB 2.0 or USB 3.0 charging ports



Features:

- Test Power (0 to 99.9W), Voltage (3.2 to 30VDC) and Current (0 to 3A) on USB 2.0 and USB 3.0 charging ports with over-voltage, under-voltage and over-current indicators
- Measure capacity (in mAh) to verify output of portable battery pack
- This displays as a cumulative number and is useful when determining how quickly/effectively a portable battery charger is working
- Dual output for charging two USB devices off of one USB 3.0 port
- One port is a specially designed as a masked port for secure charging of your phone or tablet in public areas without any data being transferred

Ordering Information:

8064	CamView Analog Camera Tester
IPAS10-N	IP Answer Stick IP Camera PoE Tester
USB-BUG	USB Tester and Data Masker



Portable LED Monitors

HDCM-4K Ultra-Compact HD 4K Security Test Monitor

Connects using HDMI, Composite BNC-In & BNC-Out, and Component BNC



RoHS CE

Features:

- 7" HD TFT LED LCD Monitor with 1920 x 1080P and 1.4 HDMI
- Connects using HDMI, Composite BNC-In/BNC-Out & Component BNC
- AC powered or uses an externally mounted, easily swapped rechargeable battery with external battery charger
- Utilizes standard 7.4V 4400mAh 32.6Wh rechargeable battery
- Includes desk-, wall- or rack-mountable stand, AC adapter, HDMI cable, rechargeable battery, battery charger and user manual
- Compact & lightweight
- 1 year warranty

HDCM3 8" LED Monitor with 1280 x 720 Resolution

Connects using HDMI, VGA, and AV inputs

Features:

- Use with Security Cameras during setup, testing, and monitoring; DVRs, Cable/Satellite TV boxes, and DVD Players; Computers and Laptops as a second monitor; DSLR Cameras as a second screen while broadcasting live events; Raspberry PI Projects, and much more
- Versatile stand allows placement on top of desk or DVR/NVR, mounting to wall, or mounting to IT cabinet or server rack
- Full HD 1080p screen resolution
- Built-in speaker
- Volume control button
- Ruggedized outer construction
- Mounts to a desk or wall using the included swivel stand
- Includes wall- or desk-mountable swivel stand, AC adapter/charger and 1500mAh Lithium rechargeable battery
- 1 year warranty



RoHS CE

Ordering Information:

HDCM-4K	7" Ultra-Compact HD 4K Security Test Monitor
HDCM3	8" LED Monitor with 1280 x 720 Resolution



CCTV Baluns/Hubs/Isolators

By using a balun at each end of a UTP cable you can obtain:

- Lower material cost (CAT5 versus coax cable)
- Reduced install labor (pull time or cable may already be there)
- Longer cable runs (passive up to 2000 feet, active up to 1.5 miles)
- More versatile (4 cameras on 1 CAT5 cable)
- Future proofs system (can IP address the entire analog system plus cable in place for full IP digital system upgrade)



BLN-RJ452



CCTV Balun – BNC Male to RJ45 Female
BLN-RJ45: Single
BLN-RJ452: Pair

BLN-PCVRJ452 PAIR



CCTV Balun – Video/Power with Female Power Contact
 Distance: 650 feet

BLN-RJ45PT



CCTV Balun – BNC Male to RJ45 Female with 6 inch Pigtail

BLN-PVRJ452



CCTV Balun – BNC Male with Power Lead to RJ45 Female, all pigtailed
BLN-PVRJ45-1: Single
BLN-PVRJ452: Pair

BLN-MTPT2 PAIR



CCTV Balun – BNC Male and BNC Pigtail to Toolless

BLN-STPT2 PAIR



CCTV Balun – BNC Pigtail to Screw Terminal, 1000 feet

H16P-RJ45BNC-2



CCTV Balun Hub – 16 Position BNC to RJ45 Female with Power Pigtails. Signal distance of 100' to 300' depending on power supply. Use with BLN-PVRJ452 at camera

TRB-RGBPTA



Transceiver Box – 3 RCA (RGB) Plugs with Pigtails and 1 RCA Jack to 1 RJ45 Jack - Component Video, Analog Audio

TRB-8BNCVPPT



Transceiver Box – 8 Position with Pigtails

TRB-8BNCSTRJ45



Transceiver Box – 8 Position, 8 BNC Jacks to Screw Terminal or RJ45



5MP High Performance Baluns/Hubs

- For use with standard definition, AHD, HD-TVI or HD-TVI up to 5MP
- Plug & Play
- Video or Video and Power over CAT5/6 cabling
- Hubs are available in 4, 8 or 16 channels; with or without power

HD-1POC **PAIR** (one receiver, one transmitter)



Single channel 5MP High Performance Video & Power Balun over Coax.
Distance: 1312ft

HDB-VRA



5MP High Performance Voltage Reducing Adapter –
36V / 24V input, 12V output
Distance: CVI - 820ft; TVI - 656ft; AHD - 656ft

HDB-APRT **PAIR** (one receiver, one transmitter)

5MP High Performance Active / Passive Video Balun for use over CAT5 or higher – 1148 feet. Works with HD-TVI, HD-CVI, AHD and NTSC/PAL cameras. Transmits video only; does not transmit POE.
Distance: CVI - 1181ft; TVI - 1049ft; AHD - 1181ft; CVBS - 1968ft



HDB-PVRJ45PT2 **PAIR**



5MP High Performance Video / Power Balun, 1 male / 1 female power contacts. Transmits over CAT5 or higher. Distance: 650ft

HDB-RJPT2 **PAIR**



5MP High Performance Video Balun – with 2 pigtail, to screw terminal. Transmits over CAT5 or higher.
Distance: CVI - 820ft; TVI - 656ft; AHD - 656ft

HDB-VSTPT2 **PAIR**



5MP High Performance Video Balun – one with pigtail, one without to screw terminal
Distance: CVI - 820ft; TVI - 820ft; AHD - 820ft

HDB-AART **PAIR** (one receiver, one transmitter)



5MP High Performance Active / Active Video Balun for use over CAT5 or higher. 1640 feet max. Works with HD-TVI, HD-CVI, AHD and NTSC/PAL cameras. Transmits video only; does not transmit POE.
Distance: CVI - 1804ft; TVI - 1312ft; AHD - 2296ft

HDB-PVDRJ45PT2 **PAIR**



5MP High Performance Video / Power / Data Balun – all pigtailed to RJ45. Transmits over CAT5 or higher. Distance: 650ft

HDB-PVRJ45PT2-1 **PAIR**



5MP High Performance Video / Power Balun all pigtailed to RJ45, no power contacts. Transmits over CAT5 or higher. Distance: 650ft

HDMP-1X4



5MP High Performance Multiplexer – 4 HD-TVI Signals



HD-GLI



5MP High Performance Ground Loop Isolator

GLI-BNCPJPT-1



Ground Loop Isolator
BNC Male to BNC Female with pigtail

HDHUB-4P



4 position, 5MP High Performance Video Hub, Screw Terminal Block
Distance: CVI - 820ft; TVI - 656ft; AHD - 656ft

HDHUB-8P



8 position, 5MP High Performance Video Hub, Screw Terminal Block
Distance: CVI - 820ft; TVI - 656ft; AHD - 656ft

HDHUB-16P



16 position, 5MP High Performance Video Hub, Screw Terminal Block
Distance: CVI - 820ft; TVI - 656ft; AHD - 656ft

HD-GLIVB PAIR



5MP High Performance Ground Loop Isolator - Video Balun

HD-QUAD



5MP High Performance Quad Processor – HD-TVI, 4X4, Color, Table Mount with looping.

HDHUB-4PVP



4 position, 5MP High Performance Video / Power Hub, 36 Volt
Distance: CVI - 820ft; TVI - 656ft; AHD - 656ft

HDHUB-8PVP



8 position, 5MP High Performance Video / Power Hub, 36 Volt
Distance: CVI - 820ft; TVI - 656ft; AHD - 656ft

HDHUB-16PVP



16 position, 5MP High Performance Video / Power Hub, 36 Volt
Distance: CVI - 820ft; TVI - 656ft; AHD - 656ft



Video Converter Baluns

POE-1TR PAIR



The Triplet POE-1TR is a Low cost and easy, speedy solution that allows you to use existing coax cable to send IP camera signals. Commonly used in pairs with your RG59/6U cable to exceed the IEEE 802.3 10/100BaseT specification. The working range is up to 300 meters at 10Mbps speed when using RG6U coax cable. Does not support PoE.

CON-HDMIBNC



Converts HDMI image to normal TV display with audio output (3.5mm) Convert high definition signal from game consoles, tv boxes, blue ray/dvd players, digital cameras to coaxial bnc analog video signal with audio for connection to older TVs and monitors

HDMI-1TR PAIR



The Triplet HDMI-1TR is a Cost saving alternative to expensive long HDMI Cables. Easy, speedy solution allows you to use existing category cable to extend HDMI signals. Supports high resolution 1080p at 40M. Working range is up to 230 feet (70 meters) at 1280x720 and commonly used in pairs with your CAT5/CAT6 cable. Passive, no power required.

CON-VGA-HDMI



Combines VGA and stereo audio inputs into an HDMI signal Supports HDMI up to version 1.3 and HDCP v1.2 and scales general PC resolutions to HDMI 1080p output

Power Over Coax Transmitters, Receivers & Converters

- Upgrade from analog system to IP with existing coax cable, no new wiring required
- Plug & Play, no request of any configuration
- Data transmission speeds 10/100Mbps

Receiver



POC-1R48/56: Single Channel Receiver, use with up to three POC-1T12V Transmitter units (daisy chained), Power Input: 110VAC to 240VAC, Power Output: 48V to 56VDC, Connects via CAT5E to your Ethernet Switch, then connects to [appropriate transmitter] via COAX. NOTE — Power and Length Limitations

Transmitter



POC-1T12V: Single Channel Transmitter, 12V output to camera. One coax port – Use with POC-1R48/56V Receiver



Twist-On Connector

- Bright nickel finish, solid brass or zinc body
- Utilizes captive, self-energizing gold-plated center contact
- Field installable; Completely reusable
- No solder or crimping tools needed
- Requires open ended wrench

BNC Crimp-Crimp Connectors

- Bright nickel finish and a solid brass or zinc body
- Solves potential cable/connector dimensional discrepancy problems
- Will maintain proper cable retention
- No loose contacts or other parts to handle
- Available in packs of 10

BNC Male Twist-On 10 PK



302-4TP - 50 Ohm – RG59 PVC, & RG6 TFE, 10pk
 302-1TP - 50 Ohm – RG58, RG59 TFE, & RG62 TFE, 10pk

BNC Male 3 Pc Crimp-Crimp 10 PK



305-1TP - 50 Ohm – RG58, 10pk
 305-2TP - 50 Ohm – RG59, RG62, RG140, RG210, 10pk
 305-5TP - 50 Ohm – RG6, 10pk
 305-10TP - 50 Ohm – RG59 & RG62 TFE, 10pk

BNC Male 3 Pc Crimp-Crimp 10 PK



305-18TP - 75 Ohm for RG8218 male

BNC Male 3 Pc Crimp-Crimp 10 PK



305-21TP - 50 Ohm – Double Ferrules, RG59, RG59 TFE

BNC Male 3 Pc Crimp-Crimp 10 PK



305-30WPTP - 75 Ohm – RG59 Plenum cable

BNC Male 3 Pc Crimp-Crimp 10 PK



307-2TP - 75 Ohm – RG59, RG62, RG140, RG210 & RG734 cable

BNC Male 3 Pc Crimp-Crimp 10 PK



307-18TP - 75 Ohm – RG218 and RG735 cable

BNC Male 4 Pc Crimp-Crimp 10 PK

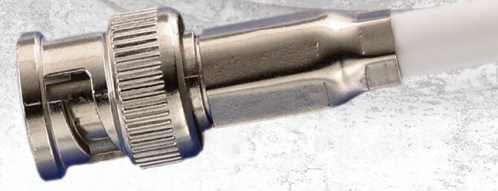


307-18-4TP - for 8218, 735, 1164, hc2648, hc2650, 1418, 1167.673948, 10pk



BNC Crimp-On Connectors

- Bright nickel finish and a solid brass or zinc body
- Solves potential cable/connector dimensional discrepancy problems
- Will maintain proper cable retention
- No loose contacts or other parts to handle



Universal BNC Male 2 Pc 10 PK



301-00TP - Crimp-On – 50 Ohm, RG59 PVC & RG59 TFE 20 AWG; RG59 PVC & RG59 TFE 22 AWG; RG58 PVC, RG6 PVC & RG6 TFE

Universal BNC Male 2 Pc 10 PK



301-00-75TP - Crimp-On – 75 Ohm, RG59 PVC & RG59 TFE 20 AWG; RG59 PVC & RG59 TFE 22 AWG; RG58 PVC, RG6 PVC & RG6 TFE

Universal BNC Female 2 Pc 10 PK



350-00-75TP - Crimp-On – 75 Ohm, RG59 PVC & RG59 TFE 20 AWG; RG59 PVC & RG TFE 22 AWG; RG58 PVC, RG6 PVC & RG6 TFE

BNC Male 2 Pc 10 PK



301-0TP - Crimp-On – 50 Ohm, RG59 PVC & RG59 TFE 20 AWG

BNC Male 2 Pc 10 PK



301-1TP - Crimp-On – 50 Ohm, RG58, RG59 TFE, & RG62 TFE

BNC Male 2 Pc 10 PK



301-4TP - Crimp-On – 50 Ohm, RG59 PVC, RG6 TFE

BNC Male 2 Pc 10 PK



301-5TP - Connector for RG6 Cable

BNC Male Uni-Crimp 10 PK

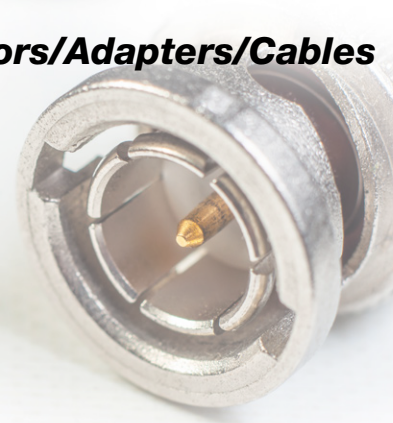


301-75-2TP - Crimp-On – 75 Ohm, RG59



BNC Compression Seal Connectors

- Compression seal design uses one assembly procedure and one crimp tool for F, RCA and BNC connectors
- The connector produces a cable retention that is far superior to any other connector design
- Once the connector is properly installed, it cannot be pulled off
- Superior electrical performance and high cable retention values



Universal BNC Male 10 PK



302-00CSTP - Compression Seal – RG59 PVC, RG6 Plenum & RG6 Quad

BNC Male 10 PK



302-N2CSTP - Compression Seal – RG59 PVC, RG59 Plenum & RG59 Siamese, weatherproof

BNC Male 10 PK



302-10CSTP - Compression Seal – RG59 Plenum, weatherproof

Gold plated BNC Male 10 PK



302-18CSGTP - Compression connector for RGB Cable

BNC Male 10 PK



302-8240CSTP - Compression Seal – RG58 Plenum, Belden 8240, weatherproof

Gold plated RCA Male 10 PK



100-18CSGTP - Compression connector for RGB Cable



F Connectors

- Crimp connectors feature a bright nickel finish and a solid brass body
- Twist on connectors are reusable
- Compression connectors produce a cable retention that is far superior to any other connector design

F Male Compression



0406-00CSTP - Universal, 10pk
0406-00CSFP - Universal, 50pk
0406-6CSQSTP - RG6 Dual/Tri/Quad shield Cable, Weatherproof, 10pk
0411-11CS - RG11, Weatherproof,

F Male Twist-On



0406-6T0TP - 75 Ohm – 1 pc, RG6, 10 pk

Female Adaptor



0401-11DD-TP - Offset F Female to Female Adaptor, 10 pk

BNC Adapters

- Adapters provide a simple connection between 2 of the same series of jack or between different series of connectors without replacing one or the other
- Weatherproof for indoor/outdoor use
- Right angle adapters can be used to eliminate sharp cable bends deteriorating electrical signal
- Terminators prevent unwanted interference and signals from entering the cable to reduce frequency loss

BNC Adapter "T"



301-T3TP - All Male, 50 Ohm, 10 pk

BNC Male Termination



301-T75TP - 75 Ohm, 1/2 Watt 1% White Cap, 10 pk

BNC Adapter Straight



301-301TP - Male/Male, 50 Ohm, 10 pk

BNC Adapter Right Angle



301-RA-350TP - Male/Female, 50 Ohm, 10 pk

BNC Adapter Right Angle



301-RA75-350TP - Male/Female, 75 Ohm, 10 pk

BNC Adapter Straight



327-11TP - Female/Female, 50 Ohm, 10 pk

BNC Adapter Straight



327-1175TP - Female/Female, 75 Ohm, 10 pk

BNC Adapter "T"



301-32750TP - Female/Male/Female, 50 Ohm, 10 pk

BNC Adapter Goal Post



301-327750TP - Female/Male/Female, 50 Ohm, 10 pk



Cable and Connector Cross Reference Chart

CCTV Cable	BNC	BNC	BNC	BNC	BNC	F
Description	Compression Plug	Crimp-On Plug	Crimp-On Jack	Uni-crimp Plug	Crimp-Crimp Plug	Compression Plug
	75 Ohm	75 Ohm	75 Ohm	75 Ohm	75 Ohm	
RG59 BC 95% BC CL2	302-00CSTP	301-00-75TP		301-75-2TP	307-2TP	
RG6 BC 95% BC	302-00CSTP	301-00-75TP	350-00-75TP			0406-00CSFP
RG59 BC 95% BC + 18/2 Siamese CL2	302-00CSTP	301-00-75TP	350-00-75TP	301-75-2TP	307-2TP	
RG59 BC 95% BC + 18/2 Siamese Water Res	302-00CSTP	301-00-75TP	350-00-75TP			
RG59 BC 95% BC CL2R	302-00CSTP	301-00-75TP	350-00-75TP	301-75-2TP	307-2TP	
RG6 BC 95% BC CL2R	302-00CSTP	301-00-75TP	350-00-75TP			0406-00CSFP
RG59 BC 95% BC CL2P	302-00CSTP	301-00-75TP	350-00-75TP			
RG59 BC 95% BC Siamese CL2P	302-00CSTP	301-00-75TP	350-00-75TP			
RG59 BC 95% BC CCA CL2	302-00CSTP	301-00-75TP	350-00-75TP	301-75-2TP	307-2TP	
RG59 BC 95% BC CCA + 18/2 Siamese CL2	302-00CSTP	301-00-75TP	350-00-75TP	301-75-2TP	307-2TP	
RG6 CCS 60% AL CL2	302-00CSTP	301-00-75TP	350-00-75TP			0406-00CSFP
RG6 CCS QUAD CL2	302-00CSTP					0406-00CSFP
RG11 CCS 60% AL CATV						0411-11CS
RG6 BC QUAD CATV	302-00CSTP					0406-00CSFP
RG6 CCS DUAL 60% AL Water Res. CATV	302-00CSTP	301-00-75TP	350-00-75TP			0406-00CSFP
RG6 CCS QUAD Water Res. CATV	302-00CSTP					0406-00CSFP
RG6 CCS 60% AL CATVR	302-00CSTP	301-00-75TP	350-00-75TP			0406-00CSFP
RG6 BC DUAL CATV	302-00CSTP	301-00-75TP	350-00-75TP			0406-00CSFP
RG6 CCS QUAD CATVR	302-00CSTP					0406-00CSFP
RG6 CCS 65% AL CATVP	302-00CSTP	301-00-75TP	350-00-75TP			0406-00CSFP
RG6 QUAD CATVP Out Of Stock	302-00CSTP	301-00-75TP	350-00-75TP			0406-00CSFP

301-RG59-301/36 3 Foot RG59 Cable Assemblies

50Ω RG59 with BNC Plugs



301-RG59-301/36



301-RG59-301/36-4

Features:

- Cost effective, high quality flexible coax cable assembly
- Connect DVR to Monitoring System, Camera to DVR, Camera to PC, etc.
- Available in Single, 4PK or 10PK

Ordering Information:

301-RG59-301/36	3 foot Cable Assembly, RG59 with BNC Plugs
301-RG59-301/36-4	3 foot Cable Assembly, RG59 with BNC Plugs, Set of 4
301-RG59-301/36-10PK	3 foot Cable Assembly, RG59 with BNC Plugs, 10 Pack



Modular CAT 5/6 Connectors

Pass-Thru RJ45 Connectors:

- Simplify twisted pair terminations by allowing the wires to slide through holes out the front of the connector
- Easily verify the proper wiring order with a visual inspection
- Crimp tool simultaneously crimps and cuts
- Wires will be properly flush to the front of the connector

Standard High-Performance RJ45 Connectors:

- Lead-ins molded into the inside of the cable entry guide the wires into the wire slots
- 8 wire slots guide the wires and keep them in position
- Clear top allows for pin-out inspection before crimping



Perfect Cut – Every Time!

See page 20 for Crimping Tools.

CAT 5/6 Pass-Thru

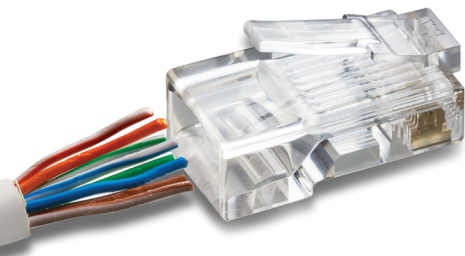
High-Speed, Pass-Thru, Modular CAT5 or CAT6 Connector, Male



- CAT5-HSP**
50PK
- CAT6-HSP**
50PK
- CAT5-HSP-JAR**
100PK
- CAT6-HSP-JAR**
100PK

CAT 5/6 Non Pass-Thru

Modular CAT5 or CAT6 Connector, Male



- CAT5-HPP**
50PK
- CAT6-HPP**
50PK

CAT 5 for FTP Shielded

Modular CAT5 Shielded Connector for FTP, Male

CAT5-HPPS-HP
100PK



CAT 6 for FTP Shielded

Modular CAT6 Shielded Connector for FTP, Male

CAT6-HPPS-HP
100PK



CAT 6 for UTP Unshielded

Modular CAT6 Unshielded Connector for UTP, Male

CAT6-HPP-HP
100PK





Insulation Displacement Connectors

Repair broken wires or splice in additional wires to an existing voice, data or low voltage circuit. For telecom, datacom, automotive, small appliances and other applications

- Insulation on the wires does not have to be stripped before termination
- Put wires in place and push button with pliers or crimping tool
- Moisture resistant sealant protects wires from corrosion



3-Wire Connectors

For single conductor solid copper wire 19 - 26 AWG

URC-100PK
100PK



2-Wire Connectors

For single conductor solid copper wire 21 - 26 AWG

UYC-100PK
100PK



CAT5/6 CPL RJ45 Inline Couplers

Join 2 Ethernet cables together to create a longer cable

- CAT5e and CAT6 models
- Simply plug cables into both sides
- Hard plastic housing
- Number of Contacts: 8
- Number of Positions: 8



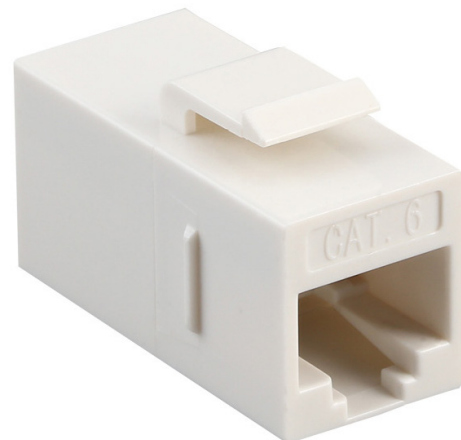
CAT5 Coupler

CAT5-CPL-BK CAT5E RJ45 Inline Coupler



CAT6 Coupler

CAT6-CPL-WH CAT6 RJ45 Inline Coupler





Crimp/Strip Hand Tools

SECURITY & CCTV NETWORKS

Pass-Thru Crimper

- GET-HSCT**
- Crimp Tool for modular CAT5/CAT6 Pass-Thru Simultaneously Crimps & Cuts
 - Ratchet Mechanism with Quick Release



CAT5/6 Crimper

- GET-CAT5HPP**
- Crimp Tool for Modular CAT5 or CAT6 Connector, Male
- Ratchet Mechanism with Quick Release



Modular Crimping Tool

- TT-325**
- EZ-RJ45 Connector - CAT7, CAT6, CAT5
- Pass through Crimp



Universal Crimper

- GET-301-UT**
- Universal Crimp tool for Crimp-On BNC



Universal Compression

- GET-CS00**
- Terminates every cable - RG59, RG59 Plenum, RG6, RG6 Plenum, RG6 Dual Shield, RG6 Tri Shield and RG6 Quad Shield



Punchdown Tool

- TT-300**
- Includes combination 66 and 110 blades
- Easily terminate and cut CAT3/5/5e/6 cables
 - Built-in Hook and Spudger Tool
 - Twist and lock blade
 - Internal blade storage compartment
 - Torque capability



Ordering Information:

GET-HSCT	Pass-Thru Crimp Tool
GET-CAT5HPP	Crimp Tool for CAT5/6 Modular Connector
TT-325	Modular Crimping Tool
GET-301-UT	Universal Crimp Tool
GET-CS00	Universal Compression Tool
TT-300	Punchdown Tool





HS-TK Professional CAT5 Pass-Thru Tool Kit

Includes GET-HSCT crimp tool, 50 CAT5-HSP connectors, wire cutter, & RJ45 cable tester



Features:

- CTX200 Cable Tester performs a TIA568 test on CAT5/6 network cable (RJ45) with instant PASS/FAIL results — opens/shorts, reversals, split pairs and continuity
- Simplify twisted pair terminations by allowing the wires to slide through holes out the front of the connector
- Easily verify the proper wiring order with a visual inspection
- Cut, strip and crimp quickly and accurately every time
- Crimp tool simultaneously crimps and cuts
- Wires will be properly flush to the front of the connector
- Includes GET-HSCT crimp tool (pg. 20), 50 CAT5-HSP connectors (pg. 18), wire cutter & CTX200 RJ45 cable tester (pg. 37)

CAT5-HP-KIT CAT5 Modular Starter Tool Kit



Features:

- Lead-ins molded into the inside of the cable entry guide the wires into the wire slots
- 8 wire slots guide the wires and keep them in position
- Clear top allows for pin-out inspection before crimping
- Installation friendly procedure with high performance for all Analog, HD-TVI, CVI, AHD and IP CCTV systems
- Ratchet mechanism with quick release
- Complete Kit includes crimp tool, wire stripper, 10 x CAT 5 modular connectors and 10 x strain reliefs

CS-TK00 Universal Compression Tool Kit

Terminates BNC, RCA, and F compression connectors from virtually all connector suppliers



Features:

- Includes (50) 302-00CS Universal BNC connectors (pg. 15), GWC wire cutter, GET-CS00 Universal Compression Tool (pg. 20), CTX200 Cable Tester (pg. 37) and case
- Terminates RG59, RG59 Plenum, RG6, RG6 Plenum, RG6 Dual Shield, RG6 Tri Shield, and RG6 Quad Shield
- Once the connector is properly installed, it cannot be pulled off -- ever!

CAT5-HS-KIT CAT5/6 Pass-Thru Starter Tool Kit

Simplify twisted pair terminations by allowing the wires to slide through holes out the front of the connector



Features:

- Easily verify the proper wiring order with a visual inspection
- Crimp tool simultaneously crimps and cuts
- Ratchet mechanism with quick release
- Wires will be properly flush to the front of the connector
- Complete Kit includes crimp tool, 20 x CAT6 pass thru modular connectors and 20 x strain reliefs

Ordering Information:

HS-TK	Professional CAT5 Pass-Thru Tool Kit
CS-TK00	Universal Compression Tool Kit
CAT5-HP-KIT	CAT5 Modular Starter Tool Kit
CAT5-HS-KIT	CAT5/6 Pass-Thru Starter Tool Kit



Connectors/Adapters/Cables

CAT6A 10GB Certified SSTP 26AWG Patch Cables

Low-Smoke, Zero Halogen (LSOH/LSZH) for use in Data Centers and other Enterprise-class facilities

Features:

- Tested and certified prior to shipping, including testing for Near-end Crosstalk (NEXT) and Return Loss (RLQ) to guarantee each cable meets or exceeds the TIA/EIA 568-C.2 standards
- Available in various lengths and colors
- 60 micro gold plated 3 prong connector pin
- CSA LL64151-C
- UL E132276-C
- RoHS
- ANSI/TIA-568-C.2:2009
- IEC 61935-2:2010
- ETL Verified



CAT6A-5BK

1. Extended barrel design & sturdier grip area for maximum durability
2. Low-smoke, zero halogen (LSZH) jacket for use in data centers



Ordering Information:

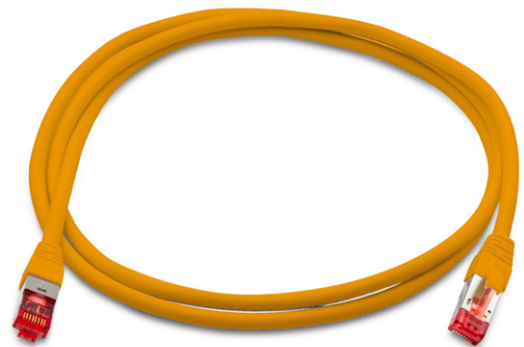
Part Number	Description
CAT5-5OR	CAT 5E UTP Cable 5' Orange
CAT6A-1BK	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 1' Black
CAT6A-1WH	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 1' White
CAT6A-1RD	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 1' Red
CAT6A-1YL	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 1' Yellow
CAT6A-3BK	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 3' Black
CAT6A-3WH	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 3' White
CAT6A-3RD	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 3' Red
CAT6A-3YL	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 3' Yellow
CAT6A-5BK	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 5' Black
CAT6A-5WH	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 5' White
CAT6A-5RD	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 5' Red
CAT6A-5YL	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 5' Yellow
CAT6A-10BK	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 10' Black
CAT6A-10WH	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 10' White
CAT6A-25BK	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 25' Black
CAT6A-25WH	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 25' White
CAT6A-50BK	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 50' Black
CAT6A-50WH	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 50' White
CAT6A-75BK	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 75' Black
CAT6A-75WH	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 75' White
CAT6A-100BK	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 100' Black
CAT6A-100WH	CAT 6A 10GBPS Professional Grade, SSTP 26AWG Patch Cable 100' White

CAT5-5OR CAT5E UTP 24AWG Patch Cable

High performance patch cable

Features:

- Modular connectors on both ends
- 4-PAIR UTP solid bare copper PVC Jacket
- TIA/EIA-568.C.2
- ISO/IEC 11801
- UL listed





CAT5-1000BL CAT5E FTP Shielded Cable

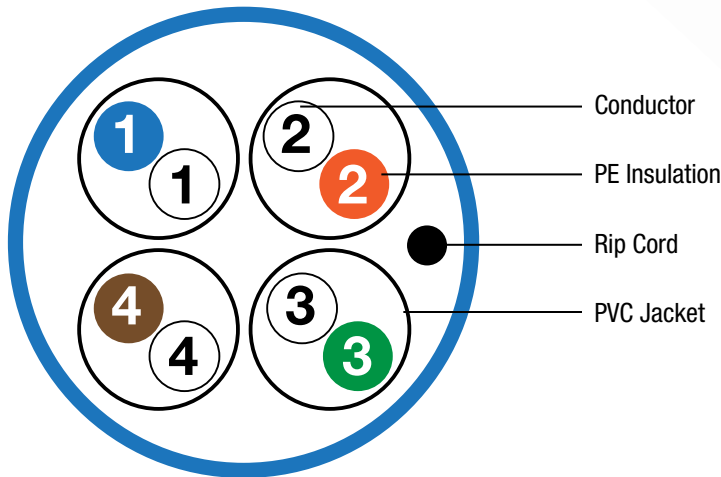
CAT5E 4-Pair UTP 24AWG Solid Bare Copper PVC Jacket 1000ft

Features:

- High-Performance Data Cable
- CAT5E Shielded Twisted Pairs
- Easily Identified Color-Striped Pairs
- 24AWG Solid Copper Conductors
- TIA/EIA-568.C.2, ISO/IEC 11801

Applications:

- IEEE 802.3: 1000Base-T; 100Base-T; 10Base-T
- IEEE 802.5: 4/6 Mbps Token Ring
- Structure Cabling, 155Mbps ATM, ISDN
- Gigabit Ethernet



Color of Pairs

Pair 1	Blue	White-Blue
Pair 2	Orange	White-Orange
Pair 3	Green	White-Green
Pair 4	Brown	White-Brown

Specifications

DC resistance	Max 9.38 Ω / 100m
Rated Voltage	30V
Reference Standard	EIA/TIA 568 & ISO/IEC 11801
Conductor Material	Solid Bare Copper
AWG	24AWG
Conductor Diameter	4 x 2 x 1/0.5 ± 0.01mm
Insulation	HDPE
Material	PE
Average Thickness	0.21 ± 0.01 mm
Insulation Diameter	0.90 ± 0.01mm
High Twisted & Ripcord	Yes
Jacket	PVC
Average Thickness	0.63mm
Outer Diameter	5.2 ± 0.01mm



See pages 30-34 for our line of cable testers

Ordering Information:

Model	Length	Color
CAT5-1000BL	1000ft (305m), Pull Box	Blue



Connectors/Adapters/Cables

CAT6AS-1000BK FTP Cable Shielded Bare Copper

CAT6 FTP Shielded 23AWG Solid Bare Copper PVC Jacket 1000ft

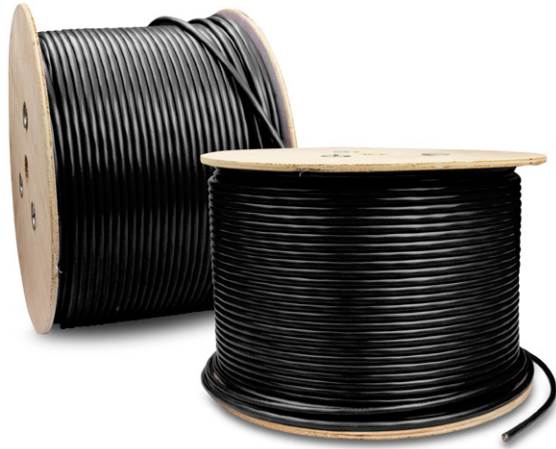
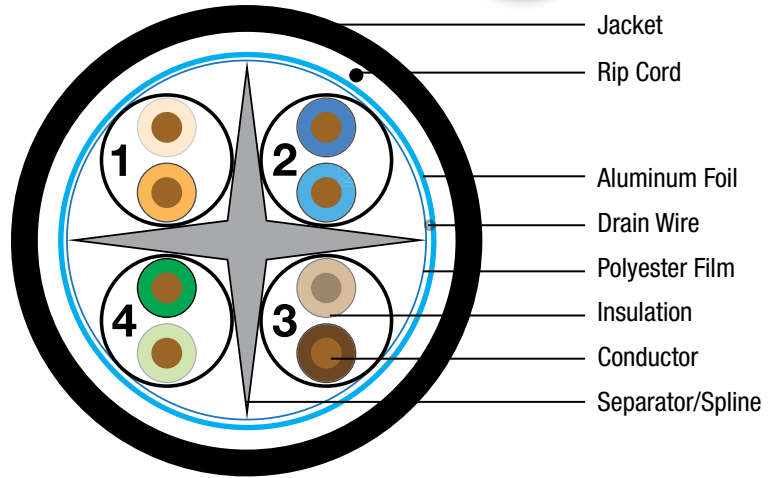


Features:

- High-Performance Data Cable
- Suitable for 10GS High Speed Applications
- Easily Identified Color-Striped Pairs
- 23AWG Solid Bare Copper
- Exceeds TIA/EIA-568B.2, ISO/IEC 11801

Applications:

High Speed Horizontal Cabling
 100 Mbps TPDDI, 1000 Base T, 622 Mbps ATM
 IEEE802.3/IEEE802.5, 10 Base-T, 100 Base-T4
 1000 Base-X, 100 Base-VG, Gigabit Ethernet



Specifications

Rated Temperature	70 °C
Rated Voltage	30V
Conductor Material	Bare Copper (99.99%)
Conductor Diameter	4 × 2 × 1/0.56 ± 0.01mm
Insulation/Average Thickness	HDPE/0.21mm
Insulation Diameter	1.01 ± 0.03mm
Shielding	STP (Al Foil)
Jacket	PVC (Fire Retardant)
Jacket Average Thickness	0.61 ± 0.01mm
Outer Diameter	6.5 ± 0.1mm
PVC Tensile Strength (Mpa)	≥ 13.8
Bending Radius	≥ 4xOD(without load)
Temperature Range	During Operation: -40°C ~ 75°C
Insulation Resistance	Min 5000mega ohms-KM at 20 °C
Dielectric Test	1000V DC/1min ; No Breakdown
Propagation	NVP 69%
Impedance	100 ± 15 Ohms at 20 °C
Frequency	500Mhz
Delay Skew	≤45nS



See pages 30-34 for our line of cable testers

Ordering Information:

Model	Length	Color
CAT6AS-1000BK	1000ft (305m), Wooden Spool	Black



CAT6U-1000 UTP & FTP Shielded* Bulk Cable

CAT6 4Pair 23AWG Solid Bare Copper, PVC Jacket 1000ft



Features:

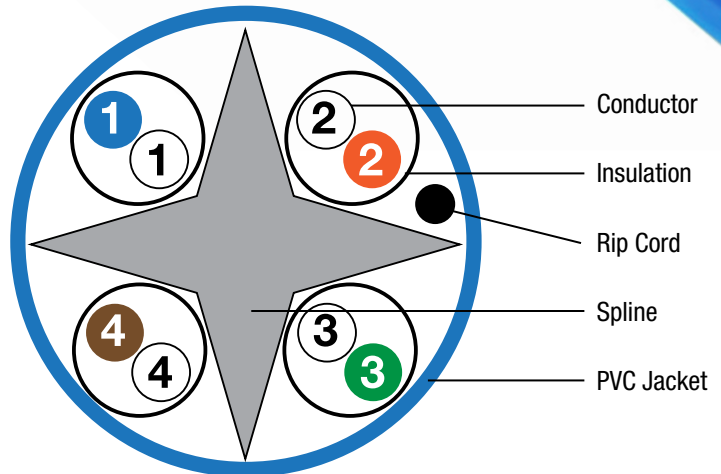
- High-Performance Data Cable
- CM Rated CAT6
- Easily Identified Color-Striped Pairs
- 23AWG Solid Copper Conductors
- Exceeds TIA/EIA-568C, ISO/IEC 11801
- Design for 1000 Base-T Gigabit Networks

Applications:

- High Speed Horizontal Cabling
- 100 Mbps TPDDI, 1000 Base T, 622 Mbps ATM
- IEEE802.3/IEEE802.5, 10 Base-T, 100 Base-T4
- 1000 Base-T , 100 Base-VG , Gigabit Ethernet
- Safe for use in the Riser Space

Color of Pairs

Pair 1	Blue	White-Blue
Pair 2	Orange	White-Orange
Pair 3	Green	White-Green
Pair 4	Brown	White-Brown



Specifications

Rated Temperature	70°C
Rated Voltage	30V
Reference Standard	EIA/TIA 568 & ISO/IEC 11801
Conductor Material	Solid Bare Copper
AWG	23AWG+
Bandwidth	550MHz
Conductor Diameter	4 x 2 1/0.53 ±0.01mm
Insulation	HDPE
Average Thickness	0.21mm
Insulation diameter	.092±0.01mm
High twisted & Ripcord	Yes
Separator	PP
Jacket	PVC
Average Thickness	0.64±0.01mm
Outer Diameter	6.10±0.02mm

Ordering Information:

Model	Length	Color
CAT6U-1000BK	1000ft (305m), UTP, Pull Box	Black
*CAT6U-1000BL	1000ft (305m), FTP, Wooden Spool	Blue



Connectors/Adapters/Cables

CAT6AU-1000 CAT6A UTP Cable Plenum

CAT6A UTP 23AWG Solid Bare Copper Plenum 1000ft

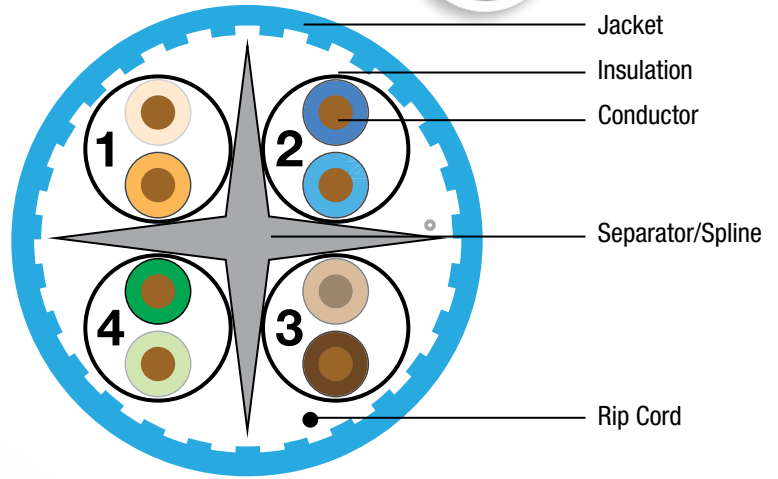


Features:

- High-Performance Data Cable
- Suitable for 10GS High Speed Applications
- Fluke Pass CAT6A UTP Cable
- 23AWG Solid Bare Copper Conductors
- Exceeds ANSI TIA/EIA-568-C.2

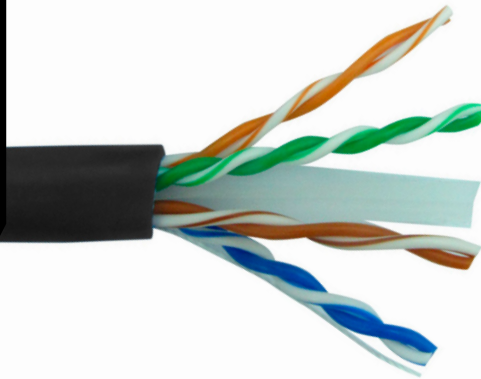
Applications:

High Speed Horizontal Cabling
 10BASE-T, 100BASE-TX, 100BASE-T4,
 1000BASE-T, 10GBASE-T, ATM-155,
 1.2 Gbit ATM, 100VG-AnyLan



Color of Pairs

Pair 1	Orange	White-Orange
Pair 2	Blue	White-Blue
Pair 3	Brown	White-Brown
Pair 4	Green	White-Green



See pages 30-34 for our line of cable testers

Specifications

Rated Temperature	70°C
Rated Voltage	30V
Testing Standard	Fluke Pass
Conductor Material	Solid Bare Copper
AWG	23AWG
Conductor Diameter	4 x 2 x 1/0.58 ± 0.01mm
Insulation	HDPE
Average Thickness	0.25mm
Insulation diameter	1.1 ± 0.03mm
Ripcord	Yes
Separator	PP
Jacket	PVC Plenum
Average Thickness	0.61 ± 0.01mm
Outer Diameter	8.10 ± 0.01mm

Ordering Information:

Model	Length	Color
CAT6AU-1000BK	1000ft (305m), Wooden Spool	Black
CAT6AU-1000BL	1000ft (305m), Wooden Spool	Blue



SECURITY & CCTV NETWORKS



HDMI-SS HDMI Standard Speed Cables

For Use With Audio-Visual Equipment

Features:

- Designed for common cable and satellite TV resolutions up to 1080p (60Hz)
- 5Gbps bandwidth
- For use with HDMI versions 1.0 to 1.2a
- 24AWG with Type A connectors
- Available in 75ft or 100ft
- Color: Black



HDMI-HS HDMI High Speed Cables

For Use With Home Theater and Audio-Visual Equipment



Features:

- Designed for common cable and satellite TV resolutions up to 1080p (60Hz) and 4K (30Hz)
- 10Gbps bandwidth
- For use with HDMI versions 1.3 to 1.4a
- 28AWG with Type A connectors
- Available in 3ft, 6ft or 30ft
- Color: Black



Ordering Information:

Model	Length
HDMI-SS-75BK	75ft HDMI Standard Speed Cable
HDMI-SS-100BK	100ft HDMI Standard Speed Cable
HDMI-HS-3BK	3ft HDMI High Speed Cable
HDMI-HS-6BK	6ft HDMI High Speed Cable
HDMI-HS-30BK	30ft HDMI High Speed Cable



Telephone Line Testers

NETWORK & CABLE TESTERS

3330 TeleTalker 330 Lineman's Test Set

Test Analog / POTS line and system for noise and intermittent connections



RoHS CE

Features:

- Test analog / POTS line and system for noise and intermittent connections
- Pulse and Tone dialing
- Three modes: data safe Monitor, Ring and Talk
- Selectable Pulse or Tone dialing
- 3 level volume control
- LED reversed polarity indicator
- Last number redial
- 10 number memory (15 digits max)
- High impact weather resistant housing and keypad
- Includes Test Leads with Angle Bed of Nails (ABN) clips and belt clip
- 3 year warranty

9615 Line-Bug Telephone Line Tester

4 Tri-color LEDs indicate Current, Polarity and Ringing/AC Volts



Features:

- Protect your expensive LAN tester by pre-testing LAN lines
- Determines if there is damaging telephone line voltage on RJ11 and RJ45 lines
- Checks LAN Lines (RJ45) wired to 568 A/B and USOC standards for damaging telephone line Voltage
- Some LAN lines have telephone voltage on previously unused pairs
- Has both RJ11 and RJ45 style plugs for testing 1-, 2-, 3-, and 4-line jacks
- Voltage is present If any LEDs light while in USOC or 568A/B switch positions
- Self powered by line voltage
- 1 year warranty

BSX200 Basic Butt Test Set

Handles the most critical requirements for testing phone lines

Features:

- Designed for people who occasionally need to deal with dial tone but don't require all of the features of an expensive model
- Functions include: dial tone, dial out, Caller ID, last number redial, on/off hang-up button, flash button, DTM and FSK support
- Useful for temporary communication
- Includes RJ11 to Alligator clips adapter, RJ11 coupler and carrying pouch
- 1 year warranty



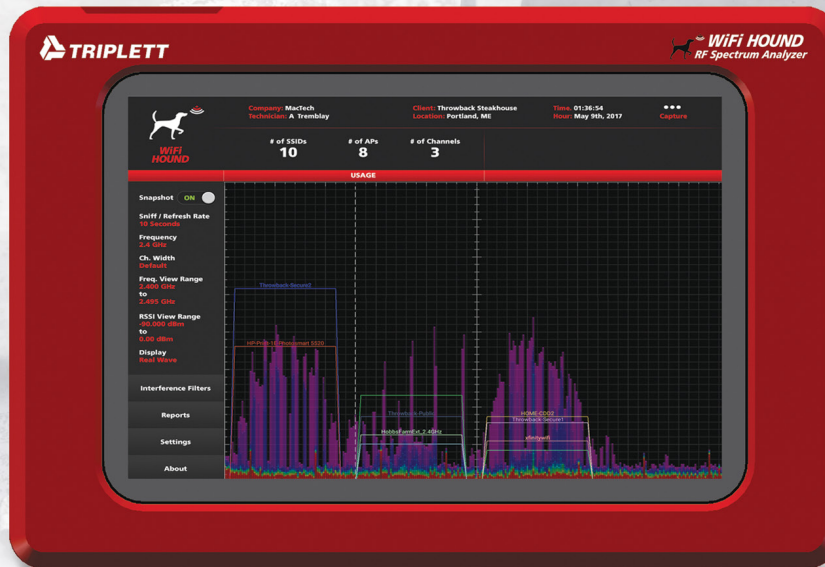
Ordering Information:

3330	TeleTalker 330 Linemen's Test Set
9615	Line-Bug Telephone Line Tester
BSX200	Basic Butt Test Set



WFHOUND Wi-Fi Hound Spectrum Analyzer

Designed to help you troubleshoot and isolate problems that impact the quality of your wireless networks



Assembled in the USA

Features:

- A full-featured WiFi Troubleshooter/RF Spectrum Analyzer perfect for troubleshooting or initial Site Surveys to optimize channel and power settings
- Displays everything that is happening in the spectrum, regardless of what is creating the signal
- User selectable between 2.4GHz (802.11 b/g/n/ Zigbee) and 5GHz (802.11 n/ac) frequencies
- Designed for live environments
 - Quickly identify the exact source of interference
 - Expose crowded networks and noisy interferences, including bluetooth, microwaves and more
 - Isolate radio interference and document the problems
- Portable device is the ideal solution for level 1 field technicians and wireless professionals
- Create a custom, high quality, detailed, full-color report to show clients what their WiFi environment looks like before and after changes
- Ideal for smart homes or businesses
- Complete with power cord and case
- 1 Year warranty

Functionality

Advanced filters include: Select specific wireless channel, Adjustable RSSI View Range, Focus by Mac Address, Show Broadcast Type (n, g, ac, etc.), Show Channel Number

Snapshot: Instantly shows you: SSIDs detected, APs detected, Channels, Non-overlapping Channels Open

Table View Includes: Custom sort and hold functions, Type of AP (e.g., Ruckus, Ubiquiti, Cisco, etc.), Screen capture to add data to your reports

Create Custom Reports: Full-color, custom-branded to your company, Include captured data, clients & location details, Send completed reports to your clients instantly



Expose crowded networks and noisy interferences, including bluetooth, microwaves & more!

Ordering Information:

WFHOUND

Wi-Fi Hound Spectrum Analyzer



Network & Cable Testers

NETWORK & CABLE TESTERS

TDR100 Cable Length Tester / TDR Meter

Test Analog / POTS line and system for noise and intermittent connections



Features:

- BNC and RJ45 input connectors
- 2.4" TFT color display
- Easy-to-use onscreen menu
- Auto-Zero and Auto-Range
- Built-in 20 groups of standard cable V.O.P. (velocity of propagation) values
- Auto-Sensitivity provides a closer match to a widerange of cables with only the V.O.P. settings required
- 99 memory locations store traces for future analysis
- Complete with 2 AA batteries, BNC (M) connector to standard test leads, BNC (M) connector to alligator clips, BNC (M) connector to (M) F connector and carrying case
- 1 year warranty

See pages 22-26 for our line of CAT5, CAT6 and CAT6A cables.



Specifications

Minimum Distance	>5m
Maximum Distance	Dependent upon the cable's V.O.P.
	3.0km@V.O.P≤99.9%
	2.4km@V.O.P≤80.0%
	2.0km@V.O.P≤66.0%
	1.5km@V.O.P≤50.0%
Resolution	0.1m
Accuracy	±(2% ±0.2m)<100m; ±(2% ± 0.5m)≥100m
Velocity Factor	Adjustable from 1.0% to 99.9%
Cable Library	20 standard cable types
Memory Location	99 for custom cable types
Power	(2) AA batteries
Dimensions	6 x 2.4 x 1.3" (152 x 61 x 34mm)
Weight	8.0oz (230g)

Ordering Information:

TDR100 Cable Length Tester/TDR Meter





LVPRO Series Multifunctional Low Voltage Cable/Network Testers

All in one copper troubleshooting kits

Features (All Models):

- Works with virtually all cable types including speaker cable, coax, alarm cable and Category cable (CAT5,6,7)
- Adjustable VOP (velocity of propagation) Function allows the LVPro to be calibrated to other unique cable types
- Perform detailed wire-mapping including Skew, Delay, Ohms, Open Shorts, reverse and split pairs
- Port Blink
- Measure cable distance to open or short (TDR)
- Test coax and RJ11 cables for faults
- Check line voltage on RJ45 (PoE) and telephone lines
- Measures network speed capabilities
- POE Test, Network Test, Battery load, memory stores up to 250 test and printing capability
- LVPRO30SR has same features as LVPRO30 and utilizes 8 smart remotes to allow additional testing of up to 8 cables
- Downloadable LVPro Manager software for easy reporting of results
- All models come complete with Detachable Remote, F Male to BNC Male, F Male to BNC Female, (2) RJ45 patch cables, RJ45 to alligator clip adapter, USB cable, 10 RJ45,10 COAX remotes, (4) AA batteries and carrying case; LVPRO30SR also adds 8 smart remotes
- 1 year warranty



LVPRO30SR
Assembled in the USA

NETWORK & CABLE TESTERS

VTM-KIT Low Voltage Pro Video Test Module

Works with **LVPRO30** & **LVPRO30SR**

- Extends the test and diagnostic capabilities of your LVPro
- Generates HDMI test patterns for cable quality identification
- Measure HDMI cable length
- Test Coax cables for signal level and dB loss



VTM-KIT (remote included)

Specifications

	LVPRO30	LVPRO30SR
Wall jack identifiers (RJ45, coax, and mixed kits available)	√	√
Speaker identification (Qty 8 available separately)	√	√
Port blink, LVPRO lights the LED on the port switch	√	√
Device Tests : Speakers: audible popper	√	√
Network Devices		
10/100/1000 advertised speed and cable pairs used	√	√
PoE pairs and cable pairs used	√	√
CCTV camera video signal: measure peak to peak volts	√	√
CATV (cable TV) requires min 30mV peak to peak signal	√	√
Battery test:100mA loaded test for 12V alarm and other batteries	√	√
DC Volts: 100V / AC Volts: 70	√	√
Max Length (all wire types): 1000 feet (305m),	√	√
Min Length split pairs: 6 feet (2m)	√	√
Min RLQ: 20 feet (7m), VOP calibration:	√	√
Min cable sample 150 feet (50m)	√	√
Smart Remotes		√

Ordering Information:

LVPRO30	Low Voltage Cable/Network Tester with Test Storage
LVPRO30SR	Low Voltage Cable/Network Tester with Smart Remotes
VTM-KIT	Low Voltage Pro Video Test Module





Network & Cable Testers

NETWORK & CABLE TESTERS

RWC1000K2(CS) Real World Certifier LAN & Cable Tester

Verify Performance and troubleshoot all LAN hardware and cabling

Features:

- Speed tests (10MB, 100MB, 1 GIGABIT)
- Cable typing (CAT 3, 5, 5E, 6)
- Displays port speed, duplex, and data levels of all pairs using real data from your hub, switch or PC
- Inline Port Mode (negotiated results)
- Cable length (real 1 nanosecond TDR)
- Opens, shorts, split pairs, split distance
- NEXT, FEXT, Skew, Propagation delay
- Attenuation, hot splits
- Tone mode for tracing and troubleshooting
- Stores 250 tests for print "receipt" to document test results
- Port blink test
- Includes: Remote Unit, CAT6 RJ45 patch cable(2), RJ45 to Coax adapter, USB cable, tracer probe and batteries (2 X 9v)
- 1 year warranty



Assembled in the USA

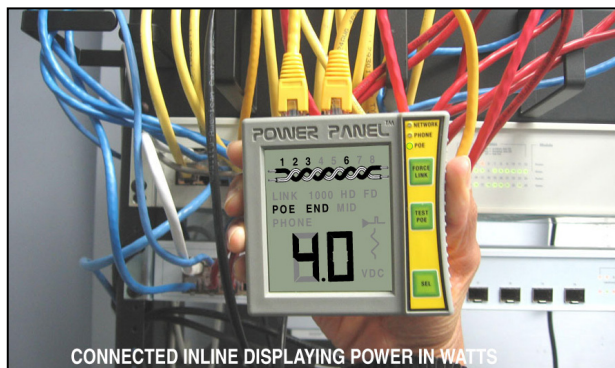
Specifications

Wire map	Yes
Resolution	1 nanosecond
Distance to splits	Yes
Cable category rating	CAT3, 5, 5E, 6
System requirements, Microsoft Office	Windows 7 & up
Crosstalk tests	NEXT and FEXT
Propagation delay (time to transit cable)	nanosecond
Skew (time delay between pairs)	nanosecond
Port Scanning	Both LAN and inline



Available Kit: CPK1000IL2

Power Panel Digital Volt Meter & LAN & Cable Certifier



CONNECTED INLINE DISPLAYING POWER IN WATTS



Kit includes RWC1000K2(CS) & POE1000IL
See page 33 for details

Ordering Information:

RWC1000K2(CS) Real World LAN & Cable Certifier
 CPK1000IL2 Power Panel & LAN & Cable Certifier



POE1000IL/POE1000ILT Power Panel Cat5/5e/6/6a/7/8 Digital Volt Meter

Ideal tool for VoIP phone or IP camera installers

Features:

- Scan all pins to locate the active devices and voltage on the Ethernet cable or port
- Display the speed (10MB,100MB,1GB), duplex (full or half) and pinouts of the devices
- Display the PoE voltage and pinouts – Mid-Span, End-Span or all pairs (if PoE is present) 802.3AF, AT, BT
- Measure the negotiated speed of the devices when connected
- Power Pass Thru - two jacks allow PoE power to be passed to the PoE device so it can be tested
- Measure watt draw of the PoE device
- The Power Panel can remain inline between 2 devices without affecting the communication for long term monitoring
- Connect to any device with an Ethernet plug—computer, switch, VoIP phone, IP camera or access point
- Detect active network devices, power for VoIP phones, IP cameras and other devices on RJ45 jacks and cables
- Works with CAT3, 5, 6, 6a, 7 & 8 UTP and STP
- Measures up to 75V/99W across all four pairs
- VoIP phone and IP camera load simulator
- Built-in Tone Generator
- Port beacon and link pulse transmit button
- Includes RJ45 cable, case and 9V battery
- 1 year Warranty



POE1000ILT

Model POE1000ILT Additional Features

- Includes inductive probe to audibly trace the wires connected to the Power Panel main unit

POE2000 POE Tester Pro

Helps to speed up the installation & troubleshooting of PoE system devices



RoHS CE

Features:

- Test Standard and non standard PoE
- Compliant with IEEE 802.3 af, at, bt
- Performs real time inline testing
- 2 Yellow LEDs indicate reversed polarity for power type
- Display alternates between Voltage, Current and Power with a step button for selecting specific data to display



Ordering Information:

POE1000IL	Power Panel Digital Volt Meter
POE1000ILT	Power Panel Digital Volt Meter with Probe
POE2000	PoE Tester Pro



Network & Cable Testers

NETWORK & CABLE TESTERS

CTX1200 Network & Cable Tester

Built-in TDR tests for opens, shorts and length (1.2km max) on UTP, CAT 6e/5e, BNC and telephone line cable

Features:

- Combined network ping testing, port flashing, and IP address scan
- Quickly identify connected network port speed (10/100/ 1000M), and detect duplex mode (full or half)
- Cable tracer can search and identify the correct UTP or BNC cable in a bundle
- Secondary code digital mode decisively rejects noise and false signals to locate cables quickly and easily
- RJ45 cable TDR tests UTP cable status, length and attenuation
- Advanced UTP cable test for cable sequence, type and connectivity, near-end, mid-end and far-end fault point of RJ45 cable plug
- HD Coaxial video level meter, can detect the TVI/CVI/AHD/CVBS signal peak value, SYNC value and burst value
- Includes cable tracer (batteries not included), AC adaptor/charger, 3.7V Li-on battery, BNC to alligator clip adaptor, RJ11 patch cable, RJ45 patch cable and tool bag
- 1 year warranty



Specifications

Display	2.4 inch TFT-LCD screen , 320x240 resolution
Cable Type	RJ45 Twisted pair, RJ11 telephone line, BNC cable
RJ45 Connector Fault	Can determine the fault point of RJ45 cable connector from Local/Remote indicator light
Power	Meter: 5V/1A AC adapter or 3.7V Li-on battery Tracer Probe: 2 AA batteries (not included)
Dimensions / Weight	5 x 3.3 x 1.3" (126 x 83 x 33mm) / 12oz (340g)

TVR10/100/1000K(CS) Cable & Network Tester

Economical tool for the LAN installer and repair technician

Features:

- Tests LAN devices and cabling up to 1000 Base-T standard
- Audibly trace cable locations with all four pairs to insure compatibility with all three types of Base-T LANs
- Hub/PC verifier indicates the equipment device type
- Detects PoE (Power over Ethernet) and indicates whether it is endspan or midspan
- Locate faulty hubs, PCs or cable connections that are hindering ultimate performance of your 10, 100 and 1000 Base-T LAN
- Straight thru/crossover cable jacks indicates the patch cable required
- Inline network activity monitor indicates the negotiated speed and duplex between two LAN devices
- Verifies if PC/hub/switch is ON and hub/switch to hub/switch data transmission
- Applications include mapping legacy LANs, installing or repairing LANs or adding equipment to existing LANs
- Cable test port checks continuity, open short and split
- Complete with (2) RJ45 cables, RJ45 to Coax adapter, case and (2) 9V batteries
- 1 year warranty



RoHS CE
Assembled in the USA

Ordering Information:

CTX1200	Network Tester
TV10/100/1000(CS)	Cable and Network Tester



3399 Fox & Hound™ Premium Tone & Probe Kit

Lightweight and easy to use wire tracing kit

Features:

- Find non-energized wires in walls, ceilings, and floors
- Three methods of contactivity; RJ11, RJ45 and alligator clips

Fox 2 Features:

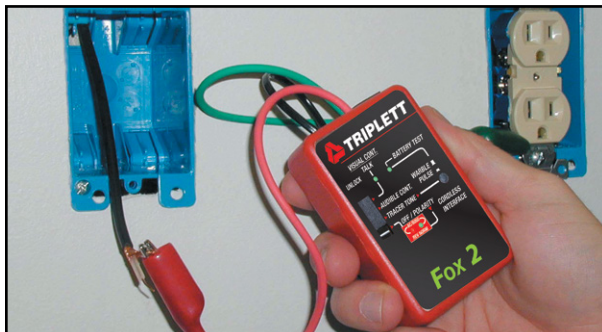
- Battery operated handheld multi-function Toner
- Generates multiple tones (Pulse or Warble)
- Performs basic telephone line tests (loop mA, line polarity, and ringing voltage)
- Provides a visual and audible continuity test
- Integrates True Trace and TripLatch tests
 - “True Trace” allows for definite ID of target wire pair
 - Cordless Phone Interface - for hands-free “True Trace”
 - “Trip-Latch” a unique latch testing technique using “True Trace for testing Alarm Sensors
- Overload protection up to 120 VAC

Hound 3 Features:

- Battery operated handheld lightweight Probe
- Thumbwheel Sensitivity control
- Signal Strength indicator LED
- Built-in LED headlights to illuminate dark areas and reduce fluorescent light noise
- Bandpass filter suppresses unwanted frequencies
- Earphone jack for noisy or quiet work areas
- This kit includes Fox 2, Hound 3, RJ-11 to RJ-45 adapter, plastic duck bill, metal duck bill, headphones and a sturdy weatherproof carry case. Uses 2 9V batteries, not included
- 3 year warranty



NETWORK & CABLE TESTERS



“Line to ground” testing using Alligator clips



Ordering Information:

3399

Fox & Hound™ Premium Tone and Probe Kit



Network & Cable Testers

NETWORK & CABLE TESTERS

CTX690 Network Tone & Probe Kit

Locate and trace live wires



RoHS CE

Features:

- Quickly trace active/inactive networks and live or dead phone lines, as well as coaxial video cabling system
- Insulated probe tip prevents short circuits
- Adjustable sensitivity
- Pulse and warble tones with audible and visual notification
- Continuity/polarity tests and provides talk battery power
- Hub blink and link modes
- Built-in flashlight
- Complete with RJ11/RJ45 modular connectors, alligator clips and an F connector adapter for coax cable
- 1 year warranty

CTX590A Tone Generator & Probe Kit

Quickly trace unenergized wires and check phone lines

Features:

- Trace various types of unenergized cable including electrical wire, twisted pair, LAN, multi-conductor, telephone, alarm and others
- Insulated probe tip prevents short circuits
- Adjustable sensitivity
- Audible and visual notification
- Tip/Ring/Continuity testing
- Includes (2) 9V batteries and RJ45, RJ11 and Alligator clip connectors
- 1 year warranty



RoHS CE

Ordering Information:

CTX690	Network Tone and Probe Kit
CTX590A	Tone Generator and Probe Kit





CTX200PA Network Cable Tester with Inductive Probe

Test and trace both RJ45-CAT5/6 and coax cables



RoHS CE

Features:

- Complete TIA568 test performed: Continuity, opens/shorts, reversals and split pairs
- PASS/FAIL results appear in one second
- Each pair's status is highlighted
- Tone mode allows for tracing cables with included probe
- Auto-off function conserves battery life
- Ruggedized for field use and easy to carry
- Includes BNC patch cable, CAT 6 RJ45 patch cable, BNC terminator, (2) 9V batteries, belt clip and case
- 1 year warranty

CTX200 Pocket Cat RJ45/Coax Tester

Ruggedized and cushioned for toolbox use with a hidden drawer to store remote

Features:

- Performs a TIA568 test on CAT5/6 network cable (RJ45) with instant PASS/FAIL results — opens/shorts, reversals, split pairs and continuity
- Ruggedized and cushioned for toolbox use with a built-in drawer to store remote
- Includes a built-in tone generator for tracing and troubleshooting
- Tests both RJ45-CAT5/6 and coax cables with Pass/Fail results in 1 second
- Complete TIA568 test performed — Continuity, opens / shorts, reversals and split pairs
- Each pair's status is highlighted
- Tone mode for tracing and troubleshooting
- Low battery indication and Auto-off (12 seconds) battery saver
- Complete with belt clip, RJ45 cable coax terminator, case and 9V battery
- 1 year warranty



RoHS CE

Ordering Information:

CTX200PA	Network Cable Tester with Inductive Probe
CTX200	Pocket Cat RJ45/Coax Tester



Network & Cable Testers

NETWORK & CABLE TESTERS

3375 Fox & Hound Jr Compact Tone & Probe Kit

Pocket sized tone generator and inductive amplifier probe



Features:

- The Fox and Hound Jr wire tracing kit is ideal for security, thermostat, data, telephone, audio and other types of wiring
- The toner generates a warble tone with a user adjustable pitch
- Adjustable sensitivity/volume control with visual signal strength indicator
- Non-conductive probe tip
- LED that can detect trace tones up to 12" away
- Built-in earphone jack that will automatically mute the loudspeaker for use in quiet or noisy areas
- Power beeper reminds user that the unit is on
- Connects easily using alligator clips or RJ-11 / RJ-45 combo plug and has 120VAC line cross protection
- Complete with (2) A23 batteries
- 1 year warranty

CTX30 Tone & Probe Kit

Quickly trace various types of unenergized cable including electrical wire, twisted pair, LAN, multi-conductor, telephone, alarm and others



Features:

- Insulated probe tip prevents short circuits
- Adjustable sensitivity
- Audible and visual notification
- Tip/Ring/Continuity testing
- RJ11 and Alligator clip connectors
- Complete with 9V battery
- 1 year warranty



Ordering Information:

3375	Fox and Hound Jr Compact Tone and Probe Kit
CTX30	Tone and Probe Kit

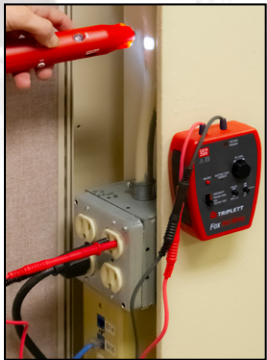


3388 Hotwire Fox & Hound Live Wire Circuit Tracing Kit

Trace Live 120/220VAC Power Lines

Features:

- Locate wires through Drywall, Plaster, Wood, Cement, etc., including buried wires up to 6"
- Trace wires up to 1000 feet for powered or unpowered common wires including telephone and cable TV wires, LAN cables, security system wires, invisible fences, landscape lighting, etc.
- Includes the versatile Fox HotWire Tone Generator (Toner) and the high performance Hound HotWire Inductive Amplifier (Probe)
- Powered by a 9V battery for Low Voltage tracing or it can be powered by the High Voltage line it is toning
- Generates multiple tones (Pulse or Warble)
- Visual and audible continuity test
- Bandpass filter to suppress unwanted frequencies
- Earphone jack for noisy or quiet work areas
- The HotWire's RF signal can be sensed through both building materials and most metal conduit
- Includes Test Leads (24" and 60"), flat blades, pointed probes, alligator clips, (2) 9V batteries and hard carrying case
- Designed to meet CATII 250V



Test and trace both RJ45-CAT5/6 and coax cables



Exclusive TrueTrace function provides positive identification of non-energized wires being traced



Lightweight Probe features a thumbwheel Sensitivity control and Signal Strength indicator LED



Built-in LED headlights to illuminate dark areas and reduce fluorescent light noise

Specifications

Hotwire Fox	
Operating Frequency (RF)	400kHz to 500kHz
Operating Frequency (AF)	800Hz to 2400Hz
Output Voltage (RF)	adjustable 5vpp to 30vpp (open circuit)
Output Voltage (AF)	fixed 10vpp (open circuit)
Tracer Tone	Warble or Pulsed, High or Low Pitch
Max. AC/DC Live Voltage	250V
Continuity Test	Up to 5,000 ohms with audible beeper
AC Voltage Test	30VAC to 250VAC
DC Voltage Test	Positive applied to red test lead 40VDC to 250VDC
Dimensions/Weight	3.5 x 4.5 x 1.5" (89 x 114 x 38mm) / 7 oz (198g)
Hotwire Hound	
Operating Frequency (RF)	400kHz to 500kHz
Signal Indicators	Speaker outputs Tracer signal and LED indicates signal strength
Earphone Jack	Accepts 1/8" mono or stereo earphone plug (mutes speaker)
Headlights	2 High Brightness White LEDs
Speaker	1.5" Mylar cone with Alnico magnet
Dimensions	1-7/8" (48mm) dia at speaker; 1-3/8" (35mm) dia at body; 7.5" (191mm) long
Weight	9 oz (255g)

Ordering Information:

3388 Fox and Hound Live Wire Circuit Tracing Kit



Multimeters

MM650 CAT IV True RMS Multimeter With Low Input Impedance mode (LoZ)

ELECTRICAL TEST & MEASUREMENT

Features:

- True RMS provides better accuracy on non-sinusoidal or noisy waveforms
- Measures AC/DC Voltage and Current, Resistance, Temperature, Capacitance, Frequency, Diode and Continuity
- μ A Current measurement
- Low input impedance (LoZ) mode for ACV/DCV measurements to identify ghost voltages
- 6000 count high performance multimeter with 61 segment analog bargraph for trending
- Min/Max/Avg, Peak Hold, Data Hold and Relative mode
- Auto power off and low battery indicator
- Rubberized overmolded housing provides impact and drop resistance
- Complete with test leads, temperature probe, (4) AAA batteries and carrying case
- Optional model complete with Certificate of Traceability to N.I.S.T.
- 3 year warranty



Specifications

Display counts	6000 count + 61 segment analog bargraph
Basic Accuracy	$\pm 0.5\%$
AC/DC Voltage	1000V
AC/DC Current	10A
AC/DC μ A Current	600 μ A
Resistance	60M
Temperature	-4 to 1400°F (-20 to 760°C)
Capacitance	6000 μ F
Frequency	10kHz
Duty Cycle	0.1 to 99.9%
Low impedance (Lo Z) Mode	Yes
Power	(4) AAA batteries
Waterproof	IP67
Safety Category	CAT IV-600V
Dimensions/Weight	6.7 x 3 x 1.8" (170 x 74 x 45mm) / 7.7oz. (218g)



Waterproof, meets IP67 standards



Backlit LCD, Buttons and Switch Selector



Built-in Flashlight for added safety in dark spaces



61 segment analog bargraph for trending

Ordering Information:

- MM650 CAT IV True RMS Multimeter
- MM650-NIST MM650 with Certificate of Traceability to N.I.S.T.



9055 6-IN-1 Digital Multimeter/Environmental Meter

High performance multimeter also measures Temperature, Humidity, Light & Sound



Features:

- Feature packed with 53 measurement ranges
- Built-in NCV detector, temperature, frequency and capacitance PLUS Relative Humidity, Light (LUX) and Sound (dB) measurements make this the ideal tool for a variety of industrial and residential applications
- Large 3-3/4 digit (4000 count) backlit display
- Double molded splash proof, dust proof, drop resistant case with built-in stand
- CAT IV 600V safety rating
- Auto Power Off feature helps maximize battery life
- Includes test leads, alligator clips, Type K Temperature probe and 9V battery
- 3 year warranty



Additional Measurements



Sound Level



Light Level



Non-Contact Voltage



Temperature & Humidity

Specifications

	Range
Auto/Manual Ranging	Autoranging
True RMS/Averaging	Averaging
Basic Accuracy	±1.5%
AC/DC Voltage	0.1mV to 600V
AC/DC Current	0.1µA to 10A
Resistance	0.1Ω to 40MΩ
Ambient Temperature	32 to 122°F (0 to 50°C)
Type K Temperature	-4 to 1400°F (-20 to 750°C)
Relative Humidity	33 to 99%RH
Capacitance	10pF to 100µF
Frequency	0.001Hz to 10MHz
Light	1 to 40,000Lux
Sound Level	35 to 100dB (C weighting, fast response)
Duty Cycle	5 to 95%
NCV Detector	50 to 1000VAC
Safety Category	CAT IV-600V
Dimensions	6.7 x 3 x 1.8" (170 x 76.2 x 45.7mm)
Weight	11.2oz (317g)

Ordering Information:

9055	6-in-1 Digital Multimeter/Environmental Meter
TL005	Standard Test Lead Set with Alligator Clips
TLK008	8 Piece Test Lead Kit
10-4295	Carrying Case, 8"L X 5.5"W X 1.75"D

ELECTRICAL TEST & MEASUREMENT



Multimeters

MM520 & MM525 TRMS Multimeters with LPF

Low pass filter (LPF) and microamp current measurements

Features:

- Measures AC/DC Voltage and Current, Resistance, Temperature, Capacitance, Frequency, Diode and Continuity
- μ A Current measurement
- Low Pass Filter (LPF) for filtering frequency and harmonic interference when measuring variable frequency drives
- Built-in NCV Detector
- Data Hold and Relative mode
- Min/Max and Auto power off
- Low battery indicator
- Includes test leads, temperature probe, pouch case and (3) AAA batteries
- 1 year warranty

Model MM520:

- 60A Clamp Adapter input can be used with any adapter that has a 10mV/A output

Model MM525:

- 6000 count EBTN (Enhanced Black Twisted Nematic) display w/31-segment bargraph
- LoZ mode (Low Impedance)

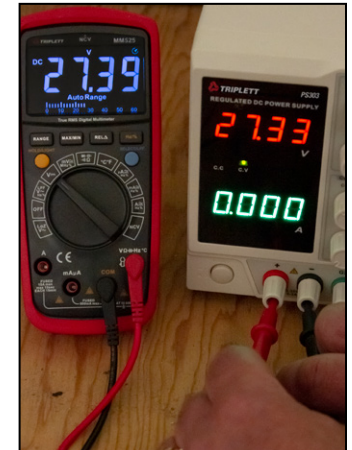


NIST TRACEABLE CALIBRATION AVAILABLE



Specifications

	MM520	MM525
Display counts	6000 count	6000 count EBTN w/bargraph
Basic Accuracy	$\pm 0.7\%$	$\pm 0.7\%$
AC/DC Voltage	600V	600V
AC/DC Current	10A	10A
AC/DC μ A Current	600 μ A	600 μ A
Resistance	60M Ω	60M Ω
Temperature	-40 to 1832 $^{\circ}$ F (-40 to 1000 $^{\circ}$ C)	-40 to 1832 $^{\circ}$ F (-40 to 1000 $^{\circ}$ C)
Capacitance	100mF	100mF
Frequency	10MHz	10MHz
Duty Cycle	0.1 to 99.9%	0.1 to 99.9%
Continuity	<10 Ω	<50 Ω
Lo Pass Filter (LPF)	Yes	Yes
LoZ	—	Yes
NCV Detector	Yes	Yes
Clamp Adapter Input	10mV/A (60A max)	—
Dimensions	6.9 x 3.2 x 1.9" (175 x 81 x 48.5mm)	6.9 x 3.2 x 1.9" (175 x 81 x 48.5mm)
Weight	12.3oz. (350g)	12.2oz. (345g)



Ordering Information:

- MM520 TRMS Multimeter with LPF
- MM520-NIST MM520 with Certificate of Traceability to N.I.S.T.
- MM525 TRMS Multimeter with LPF and LoZ
- MM525-NIST MM525 with Certificate of Traceability to N.I.S.T.



9045 True RMS Autoranging Multimeter

High performance with large backlit display and analog bar graph



NIST
TRACEABLE
CALIBRATION
AVAILABLE

Features:

- True RMS provides better accuracy on noisy waveforms
- 44 ranges including Voltage, Current, Resistance, Capacitance, Frequency and Temperature
- 6000 count LCD Display
- Analog bar graph provides fast response for trending
- Auto power off feature helps maximize battery life
- CAT III 600V safety rating
- Double molded splash proof, dust proof, drop resistant case with built-in stand
- Rubberized housing features built-in slots for test lead storage
- Industrial and residential applications include electrical, security, home theater, electronic, HVAC installations and more
- Includes test leads, alligator clips, K type temperature probe and 9V battery
- 3 year warranty

CAT III
600V

CE

Specifications

	Range
Basic Accuracy	±0.8%
AC Voltage	1mV to 750V
DC Voltage	0.1mV to 1000V
AC/DC Current	0.1µA to 10A
Resistance	0.1Ω to 60MΩ
Temperature	-4 to 1400°F (-20 to 750°C)
Capacitance	10nF to 4000µF
Frequency	0.001Hz to 10MHz
Duty Cycle	0.1 to 99.9%
Analog Bargraph	61 segments
Safety Category	CAT III-600V
Dimensions	7 x 3.7 x 1.5" (178 x 94 x 38mm)
Weight	11oz (312g)



Ordering Information:

9045	True RMS Autoranging Multimeter
9045-NIST	9045 Including Certificate of Traceability to N.I.S.T.
TL005	Standard Test Lead Set with Alligator Clips
TLK008	8 Piece Test Lead Kit
10-4295	Carrying Case, 8"L X 5.5"W X 1.75"D



Multimeters

9007A Industrial Digital Multimeter

High performance multimeter is splash proof, dust proof and drop resistant

Features:

- 30 Ranges include Voltage, Current, Resistance, Temperature, Frequency, Capacitance, Continuity, Diode Test and Duty Cycle
- 3 ½ digit (2000 count) resolution with large 1.4" backlit display
- Manual ranging with auto-polarity
- CAT III 600V safety rating
- Data Hold freezes display
- Low battery indicator and auto power off helps maximize battery life
- Complete with test leads, alligator clips, Type K temperature probe and 9V battery
- 3 year warranty



CAT III 600V

RoHS

CE

Specifications

	Range
Auto/Manual Ranging	Manual
True RMS/Averaging	Averaging
Basic Accuracy	±0.5%
AC/DC Voltage	1mV to 600V
AC Current	0.1µA to 10A
DC Current	1µA to 10A
Resistance	0.1Ω to 20MΩ
Temperature	-4 to 1400°F (-20 to 760°C)
Capacitance	1pF to 200µF
Frequency	1Hz to 2000Hz
Safety Category	CAT III-600V
Dimensions	7.1 x 3.2 x 2.1" (182 x 82 x 55mm)
Weight	12.7 oz. (360g)

Ordering Information:

9007A	Industrial Digital Multimeter
9007A-NIST	9007A Including Certificate of Traceability to N.I.S.T.
TL005	Standard Test Lead Set with Alligator Clips
TLK008	8 Piece Test Lead Kit
10-4295	Carrying Case, 8"L X 5.5"W X 1.75"D





MM300 & MM350 True RMS Multimeters

High performance with large backlit display and analog bar graph



NIST
TRACEABLE
CALIBRATION
AVAILABLE

Common Features:

- True RMS provides better accuracy when measuring non-sinusoidal or noisy waveforms
- Measures AC/DC Voltage and Current, Resistance, Temperature, Diode and Continuity
- Large easy to read LCD display
- Data Hold to lock the reading on the display
- Auto power off preserves battery life
- Low battery indicator
- CAT III-600V safety category
- Complete with protective rubber holster, test leads, temperature probe and (3) AAA batteries
- 1 year warranty

Applications:

For the Professional or DIYer. Diagnose common wiring problems; Test batteries, solar cells, wall plugs, and power outlets; Check polarity of wires in wiring installations; Measure input and output resistance of circuits (motors, transformers, resistors); Check continuity of wires, circuits

CAT III
600V



ELECTRICAL TEST & MEASUREMENT



Model MM300:

- Manual Ranging
- 1.5V/9V Battery Test

Model MM350:

- Autoranging
- Capacitance, Frequency & Duty Cycle
- μ A Current measurement
- Min/Max and Relative Mode

Specifications

	MM300	MM350
Display counts	2000 count	4000 count
Basic Accuracy	$\pm 0.8\%$	$\pm 0.8\%$
AC/DC Voltage	600V	600V
AC/DC Current	10A	10A
AC/DC μ A Current	—	400 μ A
Resistance	2M Ω	40M Ω
Temperature	-40 to 2000°F (-40 to 1370°C)	-40 to 2000°F (-40 to 1370°C)
Capacitance	—	2mF
Frequency	—	5MHz
Duty Cycle	—	0.1 to 99.9%
Continuity	<30 Ω	<30 Ω
Battery test	1.5V, 9V	—
Dimensions	5.7 x 2.8 x 1.4" (145 x 70 x 35mm)	5.7 x 2.8 x 1.4" (145 x 70 x 35mm)
Weight	5.5oz. (157g)	5.5oz. (157g)

Ordering Information:

MM300	Manual Ranging True RMS Multimeter
MM300-NIST	MM300 Including Certificate of Traceability to N.I.S.T.
MM350	Autoranging True RMS Multimeter
MM350-NIST	MM350 Including Certificate of Traceability to N.I.S.T.
10-4295	Carrying Case, 8"L X 5.5"W X 1.75"D
TL005	Standard Test Leads
TLK008	Electronic Test Lead Kit



Compact Multimeters

MM200 Compact Multimeter

4000 count EBTN (Enhanced Black Twisted Nematic) display allows you to obtain clear readings at a maximum angle

Features:

- Measures AC/DC Voltage, Resistance, Temperature and Continuity
- Built-in NCV Detector 3 color light indication and audible beeper
- Battery strength indication on power up
- Data Hold and Auto power off with disable
- Complete with Test Leads, Temperature Probe and (2) AAA Batteries
- 1 year warranty

Applications:

- For the Professional or DIYer
- Diagnose common wiring problems; Test batteries, solar cells, wall plugs, and power outlets; Check polarity of wires in wiring installations; Measure input and output resistance of circuits (motors, transformers, resistors); Check continuity of wires, circuits



NIST TRACEABLE CALIBRATION AVAILABLE



TL005 - See Page 51

Specifications



Basic Accuracy	±0.5%
AC/DC Voltage	600V
Resistance	20MΩ
Temperature	-40 to 572°F (-40 to 300°C)
Continuity	<30Ω
Dimensions / Weight	5.1 x 2.6 x 1.1" (130 x 65 x 28mm) / 4.6 oz. (130g)

Ordering Information:

MM200	Compact Multimeter
MM200-NIST	MM200 including Certificate of Traceability to N.I.S.T.
TL005	Standard Test Lead Set with Alligator Clips
TLK008	8 Piece Test Lead Kit



TLK008 - See Page 51



BBT858L Pocket Digital Multimeter

Digital multimeter also measures temperature on its easy to read backlit display



CAT II 600V CE

Features:

- Designed for use by electricians, technicians and serviceman who require an instrument that is accurate, reliable, and always ready for use
- Use on a broad variety of equipment including electronic and electrical components, devices, fuses, alarms and circuit boards
- 21 ranges including ohms, amps, AC/DC Volts and temperature
- A temperature probe is included for heating/cooling (HVAC) technicians
- 3 ½ digit, 1999 count backlit display
- Perfect for both electronic and electrical use
- Data hold freezes the reading on the display
- Soft silicone probes for safety and reliability
- Removable protective boot with rear stand
- CATII 600V rating
- Includes test leads, alligator clips, temperature probe and 9V battery
- 1 year warranty

2030 Pocket Digital Multimeter

3-3/4 digit (4000 count) pocket sized digital multimeter



CAT II 600V CE

Features:

- Built-in hard protective case
- Offers a variety of measurement features including AC/DC Voltage, AC/DC Current, Resistance, Continuity, Diode Test, Frequency and Capacitance
- ABS plastic housing provides impact and drop resistance in an ergonomic design
- Auto Power Off feature helps maximizes battery life
- 37 ranges including AC/DC Voltage to 600V and AC/DC Current to 400mA
- Frequency and Capacitance measurement with diode and continuity tests
- 3-3/4 Digit, 4000 count backlit display
- Includes integrated test leads and (2) LR44 batteries
- 3 year warranty



Ordering Information:

BBT858L	Pocket Digital Multimeter
2030	Pocket Digital Multimeter

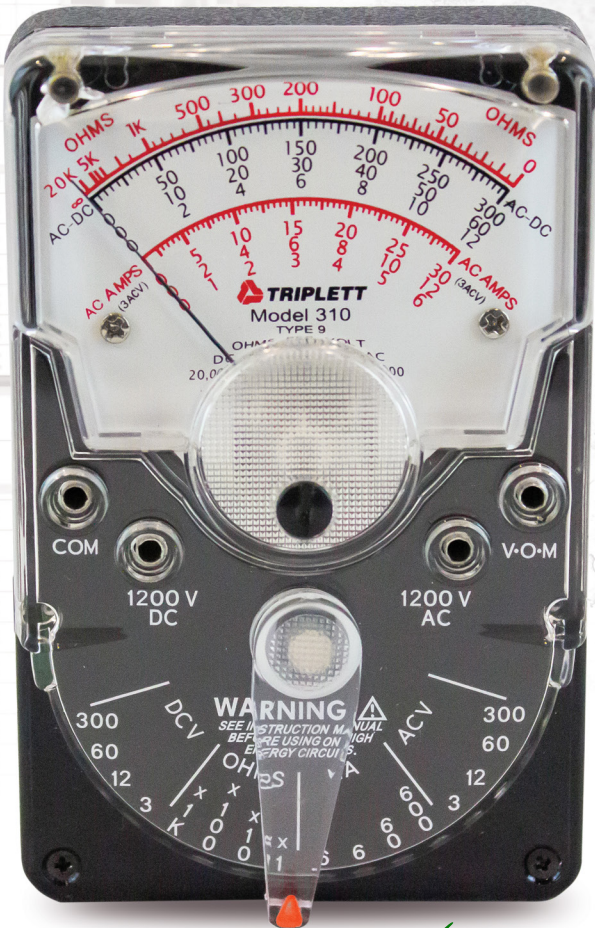


Analog MultiMeters

310 Series Analog Meters

Legacy Analog Meters delivering quality and precision for over 70 years

ELECTRICAL TEST & MEASUREMENT

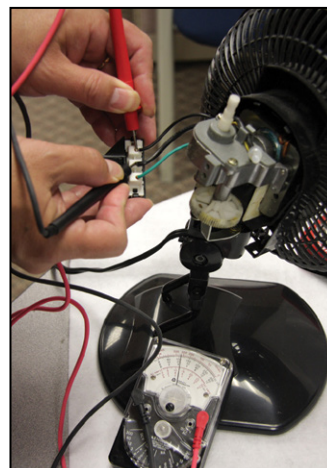


Features:

- 18 Ranges and Functions
- AC/DC Voltage Measurement to 1200V (3018)
- 3022 and 3067 are designed for the telephone industry and feature a polarity switch
- Measures 20,000 ohms per volt DC and 5,000 ohms per volt AC
- Diode overload protection against damage to the meter movements caused by accidental overloads
- The fuse and batteries can be easily replaced by removing the back cover
- Small enough to be carried in your tool box, glove compartment, brief case or shirt pocket with all the versatility and performance of larger, more expensive bench-size models
- Drop resistant high impact case
- Fused Resistance ranges
- Complete with test leads, alligator clips and (1) 12V A23 and (1) 1.5V size N batteries
- 3 year warranty

Ordering Information:

3018	Model 310 Analog Meter
3018-NIST	3018 including Certificate of Traceability to N.I.S.T.
3022	Model 310-C Analog Meter
3022-NIST	3022 including Certificate of Traceability to N.I.S.T.
3067	Model 310-TEL Analog Meter
3067-NIST	3067 including Certificate of Traceability to N.I.S.T.
79-153	42" Universal Mini Banana Test Leads
79-695	42" Universal Mini Banana to Angled Bed of Nails Test Leads





310 Series Analog Meters



Specifications

	Model 310 (PN 3018)	Model 310-C (PN 3022)	Model 310-TEL (PN 3067)	
	Range	Range	Range	Accuracy
Total Ranges	18	18	16	
AC Voltage	3V, 12V, 60V, 300V, 1200V (5kΩ/Volt)	3V, 12V, 60V, 300V, 600V (15kΩ/Volt)	3V, 15V, 60V, 300V (5kΩ/Volt)	±4% FS
DC Voltage	3V, 12V, 60V, 300V, 1200V (20kΩ/Volt)	3V, 12V, 60V, 300V, 600V (20kΩ/Volt)	3V, 15V, 60V, 300V (20kΩ/Volt)	±3% FS
DC Current	0.6mA, 6mA, 60mA, 600mA	0.6mA, 6mA, 60mA, 600mA	0.6mA, 6mA, 60mA, 600mA	±3% FS
Resistance	20kΩ, 200kΩ, 2MΩ, 20MΩ	20kΩ, 200kΩ, 2MΩ, 20MΩ	20kΩ, 200kΩ, 2MΩ, 20MΩ	±3%
Polarity reversing	—	Switchable	Switchable	
Fuse	Littlefuse 217.063, 1/6A, 250V, 5 x 20mm	Littlefuse 217.063, 1/6A, 250V, 5 x 20mm	Littlefuse 217.063, 1/6A, 250V, 5 x 20mm	
Dimensions	2.75 x 1.3 x 4.25" (69.8 x 33 x 108mm)	2.75 x 1.3 x 4.25" (69.8 x 33 x 108mm)	2.75 x 1.3 x 4.25" (69.8 x 33 x 108mm)	
Weight	7.2 oz. (204g)	7.2 oz. (204g)	7.2 oz. (204g)	

Over the years there have been many revisions to the 310 Series. We get many requests for replacement parts. Below are the replacement fuses & batteries for each of the versions.

P/N	Model/Type	Fuse	TPN	LITTELFUSE	BUSSMANN	Batteries
3018	310 / T1	No Fuses				1.5V SIZE N, NEDA 910 15V NEDA 220
3018	310 / T2	No Fuses				1.5V SIZE N, NEDA 910 15V NEDA 220
3018	310 / T3	1/16A 8AG	3207-37	361.062	MKB-.625	1.5V SIZE N, NEDA 910 15V NEDA 220
3018	310 / T4	1/16A 8AG	3207-37	361.062	MKB-.625	1.5V SIZE N, NEDA 910 15V NEDA 220
3018	310 / T5	1/16A 8AG	3207-37	361.062	MKB-.625	1.5V SIZE N, NEDA 910 15V NEDA 220
3018	310 / T6	1/16A 8AG	3207-37	361.062	MKB-.625	1.5V SIZE N, NEDA 910 15V NEDA 220
3018	310 / T7	1/16A 5x20mm	3207-112	217.063		1.5V SIZE N, NEDA 910 12V A23, NEDA 1811A
3018	310 / T8	1/16A 5x20mm	3207-112	217.063		1.5V SIZE N, NEDA 910 12V A23, NEDA 1811A
3018	310 / T9	1/16A 5x20mm	3207-112	217.063		1.5V SIZE N, NEDA 910 12V A23, NEDA 1811A
3022	310-C / T1	No Fuses				1.5V SIZE N, NEDA 910 15V NEDA 220
3022	310-C / T2	No Fuses				1.5V SIZE N, NEDA 910 15V NEDA 220
3022	310-C / T3	No Fuses				1.5V SIZE N, NEDA 910 15V NEDA 220
3022	310-C / T4	1/16A 8AG	3207-37	361.062	MKB-.625	1.5V SIZE N, NEDA 910 15V NEDA 220
3022	310-C / T5	1/16A 8AG	3207-37	361.062	MKB-.625	1.5V SIZE N, NEDA 910 15V NEDA 220
3022	310-C / T6	1/16A 5x20mm	3207-112	217.063		1.5V SIZE N, NEDA 910 12V A23, NEDA 1811A
3022	310-C / T7	1/16A 5x20mm	3207-112	217.063		1.5V SIZE N, NEDA 910 12V A23, NEDA 1811A
3022	310-C / T8	1/16A 5x20mm	3207-112	217.063		1.5V SIZE N, NEDA 910 12V A23, NEDA 1811A
3067	310-TEL / T2	No Fuses				1.5V SIZE N, NEDA 910 12V A23, NEDA 1811A
3067	310-TEL / T3	1/16A 5x20mm	3207-112	217.063		1.5V SIZE N, NEDA 910 12V A23, NEDA 1811A
3067	310-TEL / T4	1/16A 5x20mm	3207-112	217.063		1.5V SIZE N, NEDA 910 12V A23, NEDA 1811A

ELECTRICAL TEST & MEASUREMENT



Analog MultiMeters

3030 Model 630 Analog Multimeter

Fast, accurate measurements on all types of electrical and electronic equipment

ELECTRICAL TEST & MEASUREMENT



Features:

- 28 ranges including AC/DC Voltage to 600V, DC Current to 0.12A and a Decibel function for audio work
- 50 μ A sensitivity
- The tension spring acts as a built-in shock absorber
- Temperature variations will not cause sticky operation of the pointer
- Durable housing with glass meter window for added chemical resistance and a mirrored scale to reduce parallax error
- All ranges are fuse protected
- AC Voltage frequency response to 40KHz typical
- Resistance measurement of 30V / 100M on Rx100K range for testing insulation
- Thermoset plastic case
- Complete with test leads with alligator clips and batteries (1.5V and 30V)
- 3 year warranty

Specifications

	Range	Accuracy
AC Voltage	0.3V, 3V, 12V, 60V, 300V, 600V	$\pm 3\%$ FS
DC Voltage	3V, 12V, 60V, 300V, 600V	$\pm 1.5\%$ FS
DC Current	0.06mA, 1.2mA, 12mA, 120mA	$\pm 1.5\%$ FS
Resistance	1k Ω , 10k Ω , 100k Ω , 1M Ω , 100M Ω	$\pm 1.5\%$
Decibels	-20 to +57dBm	
Dimensions	7.5 x 5.88 x 2.25"	
Weight	3.25 lbs.	

Ordering Information:

3030	Model 630 Analog MultiMeter
79-127	Replacement Test Leads 48"
79-374	Replacement Test Leads, 48", Alligator Clips, Female





Accessories

TLK008

Electronic Test Lead Kit

- Universal design fits virtually all major brand digital multi-meters and test instruments
- 42" PVC test leads with straight shrouded banana plugs on one end and right-angled shrouded banana plugs on the other end
- Includes (2) 4" test probe handles with 0.16" pointed tips, (2) insulated alligator clips and (2) Plunger style mini-hooks and case with easy storage pockets
- 1 year warranty



TL005

Standard Test Leads

- Universal design fits virtually all major brand digital multimeters and test instruments
- 55" long
- 10A max current
- 1 year warranty



10-4295

Universal Carrying Case

- Universal design fits virtually all major brand digital multimeters and test instruments
- Dimensions: 8"L x 5.5"W x 1.75"D



79-153

Universal Mini Banana Test Lead Set

- 42" Test Leads with shrouded right-angle mini-banana jacks
- Includes insulated screw-on alligator clips
- 1 year warranty



79-127

Universal Banana Test Lead Set

- 48" Test Leads with straight unshrouded banana jacks
- Includes insulated screw-on alligator clips
- 1 year warranty



79-374

Universal Female Banana Jack Test Leads

- 48" Test Leads with right-angle shrouded female banana jacks
- Includes insulated screw-on alligator clips
- 1 year warranty



79-695

Universal Mini Banana to Angled Bed of Nails Test Leads

- 42" Test Leads with right-angle mini-banana jacks and angled bed of nails clips
- 1 year warranty



Ordering Information:

TL005	Standard Test Leads
TLK008	Electronic Test Lead Kit
10-4295	Universal Carrying Case

79-153	Universal Mini-Banana Test Lead Set
79-127	Universal Banana Test Lead Set
79-374	Universal Female Banana Jack Test Leads
79-695	Universal Mini-Banana To Angled Bed of Nails



Analog Meters

2000 Series Railroad Testers

Four models: Specialized testers for passenger and commercial rails

ELECTRICAL TEST & MEASUREMENT



All Models Feature:

- Designed to perform standard maintenance tasks (using Volts, Ohms and Amps measurements) as well as specialized tasks requiring measurements on railroad coding equipment
- Auto Polarity in DC functions
- Auto or Selectable DC Amps Polarity
- Direct measurement of Code Parameters
- Ohmmeter voltage mode detects foreign AC or DC Voltages
- Relay contact on time (Dry Contact) requires no adjustment
- Peak measurements require no adjustment
- Includes: test leads, padded water repellent carrying case, shoulder strap and batteries
- 1 year warranty



Models 2001,2002,2003 additional features:

- All models have a bypass switch to select “cab filter” or “no cab filter”
- Model 2000: Base unit with no Cab Filters
- Model 2001: Both 100Hz and 250Hz Cab Filters
- Model 2002: Both 100Hz and 200Hz Cab Filters
- Model 2003: Both 60Hz and 100Hz Cab Filters

Ordering Information:

2010	Model 2000 Railroad Test Set
2010-NIST	2010 Complete with Certificate of Traceability to N.I.S.T.
2011	Model 2001 Railroad Test Set
2011-NIST	2011 Complete with Certificate of Traceability to N.I.S.T.
2012	Model 2002 Railroad Test Set
2012-NIST	2012 Complete with Certificate of Traceability to N.I.S.T.
2013	Model 2003 Railroad Test Set
2013-NIST	2013 Complete with Certificate of Traceability to N.I.S.T.
79-767	Replacement Lead assembly, right angle
10-3965	Replacement Case for Railroad Testers



2000 Series Railroad Testers



Specifications

	Model 2000	Model 2001	Model 2002	Model 2003
DC Voltage	0.6V, 3V, 15V, 60V, 300V			
DCV Accuracy	±1.5% FS			
DC Milliamps	16mA, 60mA, 300mA			
DC mA Accuracy	±1.5% FS			
DC Amps	1.5A, 6A, 30A			
DCA Accuracy	±1.5% FS			
AC Voltage	1.5V, 3V, 15V, 150V, 300V, 600V			
ACV Accuracy	±3.0% FS			
AC Amps	1.5A, 6A, 30A			
ACA Accuracy	±3.0% FS			
Cab Filter Response (All AC ranges)		100Hz: 92 to 100Hz 250Hz: 245 to 255Hz	100Hz: 92 to 100Hz 200Hz: 196 to 204Hz	60Hz: 57 to 63Hz 100Hz: 92 to 100Hz
Code Functions (All AC and DC ranges)	On Time: 3% to 100% (±3% FS) Rate: 30 to 500CPM (±3% FS) Peak Hold: 0 Peak Follow: 0			
Volt Sense Mode	15V AC or DC (±20%)			
Resistance	Range: R x 1 and R x 100 Center Scale: 5 and 500 ohms Accuracy: ±2% of scale length			
Dry Contact	Allowable Resistance: 0 to 100 ohms Test Voltage: 7.5 to 15VDC Test Current: less than 1mA			
Fuse 1	1A/250V 8AG – Bussman AGX1 or Littelfuse 361001			
Fuse 2	10/A250V 3AB Normal Blow – Bussmann ABV10 or Littelfuse 314010			
Power	(2) 9V; (1) 1.5V D cell			
Dimensions	5 x 6.5 x 3.2" (127 x 165.1 x 81.3mm)			
Weight	4.75 lbs (2.15kg) with case and leads			

ELECTRICAL TEST & MEASUREMENT



Clamp-On Meters

CM200 200A TRMS AC Open Jaw Clamp

Open jaw design fits into tight spaces where a standard clamp can't close



Backlit dial and buttons for use in poorly lit areas

Features:

- True RMS provides better accuracy when measuring non-sinusoidal or noisy waveforms
- 0.6" (16mm) clamp jaw opening
- Built-in Non-Contact Voltage Detector with LED
- LoZ (impedance) mode for identifying ghost voltages
- Auto power off with disable and Data Hold
- Built-in Flashlight
- Includes Test Leads and 2 AA batteries
- 1 year warranty

Specifications



Display counts	6000 count
AC Current	200A
ACA Accuracy	±3%
AC/DC Voltage	1000V
Resistance	60MΩ
Capacitance	4mF
Continuity	<50Ω
LoZ (Low Impedance)	Yes
NCV Detector	Yes
Dimensions / Weight	9.1 x 2.5 x 1.7" (230 x 64 x 43.3mm) / 7.8oz (220.6g)

ET200 AC Line Splitter & GFCI Receptacle Tester

Combination tool for residential and commercial electricians, home inspectors and do-it-yourselfers

Features:

- **Line splitter features:**
 - Check outlet wiring, measure voltage and use your clamp meter to measure current up to 15A without breaking the circuit
 - Clamp around the 1X position for a direct current reading
 - Use the 10X position to display low current readings multiplied by 10
- **Receptacle Tester Features:**
 - Lights display 5 wiring faults: Open Ground, Open Neutral, Hot/Ground Reverse, Open Hot, Hot/Neutral Reverse
 - Easy to read fault label on both sides for receptacles with ground up or ground down installation



Ordering Information:

CM200	200A TRMS AC Clamp Meter
CM200-NIST	CM200 with Certificate of Traceability to N.I.S.T.
ET200	AC Line Splitter & GFCI Receptacle



400A, 600A & 1000A True RMS Clamp Meters

Professional True RMS Clamp Meters featuring VFD and Inrush



CE
RoHS
NIST TRACEABLE CALIBRATION AVAILABLE

Features:

- LPF for filtering frequency and harmonic interference when measuring variable frequency drives
- All models capture the instantaneous surge (inrush) of current when power equipment is turned on
- 1000A also features LoZ to capture ghost voltages
- Built-in Non-Contact Voltage Detector with LED
- Min/Max, Data Hold, Relative Mode, Auto power off
- DC Zero function
- Built-in flashlight
- Includes test leads, Type K thermocouple bead probe, 3 AAA batteries and carrying case
- 1 year warranty



Specifications

	CM400	CM450	CM600	CM650	CM1000	CM1050
Display counts	4000 count		6000 count		6000 count	
AC Current	400A		600A		1000A	
ACA Accuracy	±2.5%		±2.5%		±2.8%	
DC Current	—	400A	—	600A	—	1000A
Inrush	Yes		Yes		Yes	
AC/DC Voltage	1000V		1000V		1000V	
Resistance	40MΩ		60MΩ		60MΩ	
Temperature	-4 to 1832°F (-20 to 1000°C)		-4 to 1832°F (-20 to 1000°C)		-4 to 1832°F (-20 to 1000°C)	
Capacitance	100mF		100mF		100mF	
Frequency	100kHz		100kHz		100kHz	
Duty Cycle	20.0 to 80.0%		20.0 to 80.0%		20.0 to 80.0%	
Continuity	<50Ω		<50Ω		<50Ω	
Low Pass Filter (LPF)	Yes		Yes		Yes	
LoZ	No		No		Yes	
Jaw Size	1.2" (30mm) Clamp Jaw		1.3" (33mm) Clamp Jaw		1.4" (36mm)	
Inrush Current	100ms		100ms		100ms	
Safety Category	CAT III-600V		CAT III-600V		CAT IV-600V	
Dimensions	8.8 x 3 x 1.6" (223.8 x 76.5 x 39.4mm)		9.4 x 3 x 1.5" (239 x 76.5 x 38mm)		9.8 x 3.2 x 1.7" (249 x 81.5 x 42.2mm)	
Weight	9.5oz (268.3g)	9.8oz (277.4g)	10oz (282.8g)	10.3oz (290.6g)	11.7oz (330.5g)	11.9oz (338.4g)

Ordering Information:

CM400	400A TRMS AC Clamp Meter	CM400-NIST	CM400 with Certificate of Traceability to N.I.S.T.
CM450	400A TRMS AC/DC Clamp Meter	CM450-NIST	CM450 with Certificate of Traceability to N.I.S.T.
CM600	600A TRMS AC Clamp Meter	CM600-NIST	CM600 with Certificate of Traceability to N.I.S.T.
CM650	600A TRMS AC/DC Clamp Meter	CM650-NIST	CM650 with Certificate of Traceability to N.I.S.T.
CM1000	1000A TRMS AC Clamp Meter	CM1000-NIST	CM1000 with Certificate of Traceability to N.I.S.T.
CM1050	1000A TRMS AC/DC Clamp Meter	CM1050-NIST	CM1050 with Certificate of Traceability to N.I.S.T.

ELECTRICAL TEST & MEASUREMENT



Clamp-On Meters

9325 1000A AC/DC True RMS Clamp-On Meter

Double insulated housing with built-in NCV (Non-Contact Voltage) tester

ELECTRICAL TEST & MEASUREMENT



NIST
TRACEABLE
CALIBRATION
AVAILABLE

Features:

- 1.5" (40mm) Jaw opening fits conductors up to 500 MCM
- Measures Current, Voltage, Resistance, Temperature, Capacitance, Continuity, Diode Test
- Large backlit easy-to-read 6000 count LCD display
- Auto Power Off and low battery indicator
- Auto and manual ranging with min/max hold
- Double insulated housing is splash proof, dust proof and drop resistant
- Well suited for a variety of industrial and residential applications such as security, electrical, HVAC installations and more
- Includes test leads, Type K Temperature probe, 9V battery and case
- Optional model complete with Certificate of Traceability to N.I.S.T.
- 3 year warranty

CAT II 600V RoHS CE

Specifications

AC/DC Current/ Accuracy	0.1 to 1000A/±2.8%
AC/DC Voltage	1mV to 600V
Resistance	0.1Ω to 60MΩ
Temperature	-4 to 1400°F (-20 TO 760°C)
Capacitance	0.01nF to 4000μF
Frequency	0.01Hz to 10kHz
Duty Cycle	0.1 to 99.9%
Dimensions/Weight	9.5 x 2.75 x 1.5" (232 x 77 x 39mm) / 11.2oz (271g)

Ordering Information:

9325	1000A AC/DC True RMS Clamp-On Meter
9325-NIST	9325 with Certificate of Traceability to N.I.S.T.





CM24 400A True RMS AC/DC Mini Clamp Meter with Inrush

Captures the instantaneous surge (inrush) current when power equipment is turned on



Features:

- True RMS provides better accuracy when measuring non-sinusoidal or noisy waveforms
- AC/DC Current measurements to 400A
- Built-in NCV detector with LED (0-600VAC)
- 4000 count backlit LCD
- DC zero function
- Data Hold, Overrange indication, Auto power off
- Includes 2 AAA batteries
- 1 year warranty

Specifications

CAT III 300V

RoHS

CE

AC Current 50-60HZ	40.00A ±(2.5% + 10d) 400.0A ±(2.8% + 8d)
AC Current 50-400HZ (sine wave only)	40.00A ±(2.5% + 10d) 400.0A ±(2.8% + 8d)
DC Current	40.00A ±(2.5% + 10d) 400.0A ±(2.8% + 8d)
NCV Detector Range	0 to 600VAC
Dimensions/Weight	6 x 2.4 x 1.1" (152 x 60 x 28mm)/4.7oz (134g)

9200B 300A AC Mini Clamp-On Meter

True RMS provides better accuracy when measuring non-sinusoidal or noisy waveforms

Features:

- 4000 count display and simple 2 button operation
- Built-in non-contact AC voltage detector plus flashlight
- Data Hold
- Auto power off
- Low battery indicator
- CAT III 300V safety rating
- Includes wrist strap, 2 x 1.5V AAA batteries and case
- Optional model complete with Certificate of Traceability to N.I.S.T.
- 1 year warranty



Specifications

CAT III 300V

CE

True RMS/Averaging	True RMS
Display Counts	4000
Clamp Size	1.14" (27mm)
Max cable diameter	300MCM
AC Current	0.01A to 300A
ACA Accuracy	±3%
Dimensions / Weight	6 x 2.4 x 1.1" (152 x 60 x 28mm)/ 4.7oz (134g)



Ordering Information:

CM24	400A True RMS AC/DC Mini Clamp Meter
CM24-NIST	CM24 with Certificate of Traceability to N.I.S.T.
9200B	300A AC Mini Clamp-On Meter
9200B-NIST	9200B with Certificate of Traceability to N.I.S.T.



Electrical Testers

ACDL100 & ACDL200 True RMS AC Voltage/Current Datalogger

Single or dual channel models - Datalog up to 100,000 measurements (single channel) or 131,000 measurements (dual channel)



ACDL100 Features:

- Single channel recording of TRMS AC Voltage (600V) or Current (200A)
- 1 second to 24 hour selectable sampling rate
- Jaw size 0.5" (12.7mm)
- Multifunction LCD display
- Real time clock
- Min/Max recalls highest and lowest readings
- Low battery indicator
- Includes Test Leads, Current Clamp, (4) AAA batteries, AC Adapter and USB cable
- 1 year warranty

ACDL200 Additional Features:

- Dual channel recording of TRMS Voltage/Voltage or Current/Current or Voltage/Current



ACDL200

Applications:

Monitor AC Voltage or Current to check for unusual voltage sags/ surges or excessive current draw



ACDL100



Specifications

	ACDL100	ACDL200
Channels	Single, TRMS AC Voltage or Current	Two, TRMS AC Voltage/Voltage or TRMS AC Current/Current or TRMS AC Voltage/Current
AC Voltage Range (40-1kHz)	10 to 600.0V	
Accuracy	±1.5%±1V	
AC Current Range (50/60Hz)	10 to 200.0A	
Accuracy	±2%±1A	
Datalogger	100,000 points	
Sample Rate	Selectable 1 second to 24 hours	
PC Interface	USB port	
Power	4 AAA batteries or AC Adapter	
Dimensions/Weight	4.5 x 2.5 x 1.3" (114 x 63 x 34mm) 8.7oz (248g)	

Ordering Information:

- ACDL100 True RMS AC Voltage/Current Datalogger
 ACDL200 Dual Input True RMS AC Voltage/Current Datalogger



ELECTRICAL TEST & MEASUREMENT

CBF200 Circuit Breaker Finder

Comparison Mode helps to identify the correct breaker when signal strengths are very close

Features:

- Detect faulty wiring in 3-wire receptacles
- Lights display 6 wiring faults: Open Ground, Open Neutral, Hot/Ground Reverse, Open Hot, Hot/Neutral Reverse, Hot on Neutral with Hot Open
- Test GFCI for proper operation
- Built-in Non-Contact Voltage Detector (80-300V, CAT III-300V)
- Auto power off after 10 minutes
- Includes Transmitter, Receiver and 9V Battery
- 1 year warranty



Applications:

- Safely identify and label breaker locations within any electrical panel without removing power
- Useful and necessary tool for residential and commercial electricians, home inspectors, kitchen and bath installers, apartment/condo property managers, DIY'ers and handymen

Specifications



Voltage	120VAC
Frequency	47-63Hz
GFCI Leakage Current	7mA @ 120VAC
Safety Category	Transmitter: CAT II-300V; Receiver: CAT III-300V
Dimensions	Transmitter 4.7 x 2.5 x 1.3" (118.5 x 63 x 32mm) Receiver 5.1 x 2.4 x 1.5" (130 x 62 x 36.9mm)
Weight	9.8oz (260g)



9650 AC Circuit Breaker Finder

Identify breaker locations with visual and audible indication



Features:

- Quickly locates and identifies breakers without removing power
- 120/220 VAC Transmitter (250 VAC Max)
- Micro-Processor Controlled - Reduces False Readings
- Transmitter generates a signal up to 1000'
- Fully Automatic - No Adjustments Necessary
- Transmitter powered by outlet, receiver operated by 9V battery (not included)
- Limited Lifetime Warranty.

Ordering Information:

CBF200	AC Circuit Breaker Finder with Comparison Mode
9650	AC Circuit Breaker Finder



Voltage/Magnetic Field Detectors

ET050 Line Voltage Tester



Features:

- Bright Neon AC/DC Indicator
- Pocket Clip
- Double-insulated Housing
- 80 to 500V AC/DC
- Integrated test leads

ET330 Non-Contact AC Voltage Detector

Easily check for the presence of AC Voltage before working on a circuit



Features:

- Dual AC ranges: 24 to 1000V and 90 to 1000V
- Audible and visual alarms
- Built-in flashlight
- Includes (2) AAA batteries
- 1 year warranty

ET100 & ET102 Receptacle Testers

Unique "Finger Loop" eases removal from receptacles, especially those with high retention force

Features:

- Detect faulty wiring in 3-wire receptacles
- Lights display 5 wiring faults: Open Ground, Open Neutral, Hot/Ground Reverse, Open Hot, Hot/Neutral Reverse
- Easy to read fault label on both sides for easy viewing regardless of the receptacle's orientation
- **ET100** tests GFCI for proper operation
- **ET200** GFCI Tester and AC Line Splitter (pg. 54)
- **ET102** tests standard receptacles
- 1 year warranty



9602 Sniff It Non-Contact AC Voltage Detector

Dual color visual/audible alert when voltage is present plus built-in flashlight

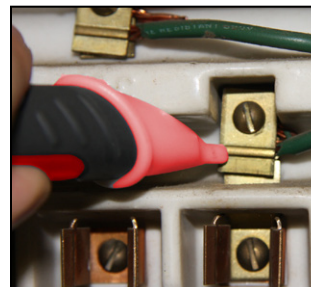
Features:

- Detects AC Voltage from 30 to 600 volts without making contact
- On/Off switch with power on indicator (green LED)
- Red flashing tip and beeper chirps when AC voltage is present and flashes and beeps faster as AC voltage is approached
- Built-in bright LED flashlight with ON/OFF switch
- Rugged double molded housing with pocket clip
- CAT IV 600V safety rating
- Includes (2) AAA batteries
- 5 year warranty



Ordering Information:

ET050	Line Voltage Tester
ET100	GFCI Receptacle Tester
ET102	Standard Receptacle Tester
ET200	AC Line Splitter & GFCI Receptacle Tester (pg. 54)
ET330	Non-Contact AC Voltage Detector
9602	Sniff It Non-Contact AC Voltage Detector



ET350 Non-Contact Voltage & Magnetic Field Detector

With sensitivity optimized at 120V

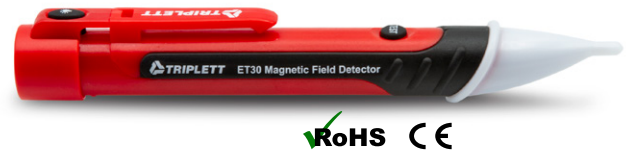


Features:

- Dual AC ranges: 24 to 1000V and 90 to 1000V
- Quickly determine the presence of magnetic fields (AC/DC/Permanent)
- Built-in flashlight
- Complete with (2) AAA batteries
- 1 year warranty

ET30 Magnetic Field Detector

Non-contact detector quickly determines the presence of magnetic fields (AC/DC/Permanent)



Features:

- Self-test magnet
- Built-in LED flashlight
- Complete with (2) AAA batteries
- 1 year warranty

Applications:

- Magnetic Field Detector determines if components (relays, solenoids, contactors, electromagnets, permanent magnets) are working properly
- Test solenoid valves in pneumatic and hydraulic control equipment
- Test relays in vehicles and machinery

EMF20 Magnetic Field Meter

Measures electro-magnetic fields of extremely low frequency (ELF) from 30 to 300Hz



Features:

- Measurements can be displayed in milligauss (mG) or μ Tesla (μ T)
- Single axis sensor
- $\pm 2.5\%$ accuracy
- Max Hold function
- Includes 9V battery and carrying case
- 1 year warranty

RoHS CE

Specifications

	Range
milliGauss Range / Resolution	200mG/2000mG / 0.1mG
μ Tesla Range / Resolution	20 μ T/200 μ T / 0.01 μ T
Frequency Response	30 to 300Hz
Accuracy	$\pm(2.5\% \pm 6 \text{ digits}) @50/60\text{Hz}$
Dimensions / Weight	5.5 x 2.6 x 1.5" (140 x 65 x 37.5mm) / 6oz(170g)

Ordering Information:

ET350	Non-Contact Voltage and Magnetic Field Detector
ET30	Magnetic Field Detector
EMF20	Magnetic Field Meter



Electrical Testers

ELECTRICAL TEST & MEASUREMENT

MG420 Analog Insulation Tester

Insulation Resistance to 400MΩ

Features:

- 250V, 500V, and 1000V Test Voltages
- Backlit multiband analog display with zero adjust
- Lock Power feature for hands-free operation
- AC Voltage measurement
- Low Resistance measurement
- Live circuit LED indicator
- Built-in battery check
- Includes heavy duty test leads with alligator clip, (6) AA batteries, hanging strap and hard carrying case
- 1 year warranty



Specifications



Insulation Range	100MΩ, 200MΩ, 400MΩ
Accuracy	±5% Full Scale
Resolution	0.2MΩ
Test Voltages	250V, 500V, 1000V
AC Voltage	600VAC
Resistance	3Ω, 500Ω
Power	(6) AA batteries
Dimensions / Weight	7.9 x 3.6 x 2" (200 x 92 x 50mm) / 24.7oz (700g)

MG430 Digital Insulation Tester / Megohm Meter

Insulation Resistance to 2000MΩ

Features:

- 250V, 500V, and 1000V Test Voltages
- Lock Power feature for hands-free operation
- Dual LCD display
- Low Ohms and Continuity
- Low Battery and Overrange Indication
- Overmolded housing for added durability
- Complete with test leads with alligator clip, (6) AA batteries and carrying case
- 1 year warranty



Specifications



Insulation Range / Accuracy / Resolution	200,200k, 200M, 2000M / ±3% / 0.1M
Test Voltages	250V, 500V, 1000V
AC/DC Voltage	750VAC/1000VDC
Resistance	200,200k
Continuity	<40
Dimensions / Weight	7.8 x 3.6 x 1.9" (200 x 92 x 50mm) / 1.5lbs (700g)

Applications:

Personal safety and loss of power performance are the main reasons for using an insulation tester. Commonly used in preventative maintenance programs to check for the breakdown of electrical resistance in insulation typically found in motors, switchgear, power tools, appliances and cables.

Ordering Information:

- MG420 Analog Insulation Tester
- MG430 Digital Insulation Tester
- MG430-NIST MG430 with Certificate of Traceability to N.I.S.T.

MG600 High Voltage Insulation Tester

Insulation Resistance to 60GΩ



Features:

- Polarization Index ((PI)
- Dielectric Absorption Rate (DAR)
- Backlit 6000 count display with bargraph
- Lock Power feature for hands-free operation
- Timed Test function (1 to 15 minutes in 1 minute increments)
- AC/DC Voltage measurement with Relative Mode, Peak Hold and Min/Max
- Low Resistance and Continuity measurement
- Live circuit voltage indicator
- Data Hold freezes the reading on the display
- Built-in battery check and Auto Power Off
- Includes heavy duty test leads, (8) C batteries, 120V AC adapter and hard carrying case
- 1 year warranty

Specifications



Insulation Range	6MΩ, 60MΩ, 600MΩ, 6GΩ, 60GΩ
Accuracy	±2.5%
Resolution	0.005MΩ
Test Voltages	500V, 1000V, 2500V, 5000V
AC/DC Voltage	600V
Resistance	600Ω, 6kΩ
Continuity	<50Ω
Power	(8) C batteries or AC Adapter
Dimensions / Weight	7.8 x 5.8 x 3.4" (198 x 148 x 86mm) / 3.2lbs (1.4kg)

EG480 Earth Ground Resistance Tester Kit

2 and 3-wire earth ground resistance measurements

Features:

- Measures earth ground resistance to 2000Ω
- Dual LCD display with backlight
- Multimeter functions: AC/DC Voltage and Resistance
- Data Hold, auto power off and low battery indicator
- Overmolded housing for added durability
- Complete with protective holster, test leads, (2) auxiliary earth rods, (6) AA batteries and case
- 1 year warranty



Applications:

An earth ground is used as a zero-volt reference point for power substations, buildings, communication towers, and as a path to dissipate lightning strikes to prevent damage to them. The NEC (National Electrical Code) requires that a single path to ground should be 25 ohms or less. If it is higher than 25 ohms, you should add an additional ground rod 6 feet away. The Earth Ground Resistance Tester provides an easy way to check this reading in installed systems or for a good location to install a new system.

Specifications



Earth Resistance / Accuracy / Resolution	20Ω, 200Ω, 2000Ω / ±2% / 0.01
Earth Voltage	200V
AC/DC Voltage	750ACV/1000VDC
Resistance	200k
Continuity	<40
Dimensions / Weight	7.8 x 3.6 x 1.9" (200 x 92 x 50mm) / 1.5lbs (700g)

Ordering Information:

MG600	High Voltage Insulation tester
EG480	Earth Ground Resistance Tester Kit
EG480-NIST	EG480 with Certificate of Traceability to N.I.S.T.



Phase Rotation Testers

PR400 & PR450 Motor & Phase Rotation Testers

Determines correct phase wiring sequence for 3-phase system installation

Features:

- Determines correct phase wiring sequence(L1, L2, L3) for 3-phase system installation
- Complete with color coded test leads with large color-coded alligator clips and carrying case
- Cat III-600V safety category
- 1 year warranty

Model PR400 Phase Rotation Tester:

- View results on an easy-to-read graphical display to see phase direction (clockwise/counter-clockwise) and which phases are live
- No battery required

Model PR450 Motor and Phase Rotation Tester:

- LEDs display phase direction (clockwise/counter-clockwise) and which phases are live
- Contact or non-contact motor rotation direction indicator
- Includes 9V battery



Specifications

	PR400	PR450
Phase Voltage Range	40 to 600VAC	40 to 600VAC
Bandwidth	15 to 400Hz	2 to 400Hz
Motor Rotation	No	Yes
Power	—	9V battery
Safety Category	CATIII 600V	CATIII 600V
Dimensions	5.1 x 2.7 x 1.3" (130 x 69 x 32mm)	5.1 x 2.7 x 1.3" (130 x 69 x 32mm)
Weight	4.6oz (130g)	4.6oz (130g)

TT-102 FUEZR2 Ultra-Bright LED Worklight/Flashlight

2-in-1 Worklight/Flashlight with adjustable stand - rotates 360° for any viewing angle

Features:

- Worklight has 20 Ultra-bright SMD LED lamp beads; 100 Lumens. 3 additional LEDs on the top function as a flashlight; 10 Lumens
- Color temperature is 6,000K
- Strong magnet on stand attaches to any metal object, or hang by retractable hook
- Compact design fits in your pocket
- Power Supply: 3 x AAA Batteries (Not included)
- 1 year warranty



Ordering Information:

PR400	Phase Rotation Tester
PR450	Motor and Phase Rotation Tester
TT-102	FUEZR2 Ultra-Bright LED Worklight/Flashlight



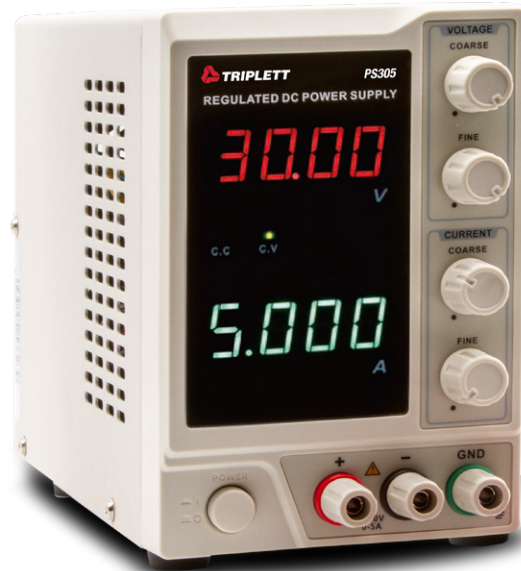
PS305 Single Output DC Power Supply

Constant Voltage or Current operation



Features:

- Fine and Coarse Adjustments
- Dual 4-Digit LED displays for voltage and current
- Short circuit & overload protection
- Reverse polarity protection
- Low ripple and noise
- Fused temperature protection with automatic recovery
- Includes banana to alligator test leads and AC power cord
- 1 year warranty



Specifications



PS305	
Output Voltage / Current / Power	0 to 30.00V / 0 to 5.000A / 160W
Load Regulation	<0.01% + 5mV, <0.1% + 10mA
Line Regulation	<0.01% + 3mV, <0.1% + 3mA
Ripple and noise	≤2mVrms, ≤3mArms
Power	110 to 220VAC, 50/60Hz
Dimensions / Weight	4.1 x 6.1 x 8.3" (105 x 155 x 210mm) / 8.8lbs (4kg)

Applications:

Bench Testing and Repair of circuit boards, vocational school/technical school/college level electronics classroom education, field service and hobbyists

UA100 World Travel Adaptor with Dual USB

Worldwide Compatibility includes USA, Japan, Australia, China, UK and Euro plugs



Features:

- Smart USB determines how much power (voltage/current) a device can safely use
- Rapid Charge, 5V/2.1A Total USB Output, 6A Max AC output
- For use with most electronic devices up to 1380W at 230V and 660W at 110V
- Safety function switch ensures only one plug is energized
- No grounding—for use with unearthed or double insulated appliances only
- Fuse protected (250V, 6A) baby-proof outlet

Specifications



USB Output	5V / 2.1A (max)
Input	100-240VAC 50/60Hz (max load 6A)
Max AC Power	660W at 110VAC or 1380 at 230VAC
Dimensions	2.4 x 1.8 x 2.2" (62 x 46 x 55mm)
Weight	3.5oz (100g)

Ordering Information:

PS303	30V 3A Single Output DC Power Supply
PS303-NIST	PS303 with Certificate of Traceability to N.I.S.T.
PS305	30V 5A Single Output DC Power Supply
PS305-NIST	PS305 with Certificate of Traceability to N.I.S.T.
UA100	World Travel Adaptor

ELECTRICAL TEST & MEASUREMENT



Hand Tools

TT-221 ClikGrip Pliers

10" Self Adjusting Pliers

Features:

- Simple, quick adjusting design (no button to press or channels to lock)
- Hi-strength Chrome Vanadium Steel with non-reflective black oxide finish
- Only one hand needed to adjust size with a light squeeze of the handles
- Jaws stay parallel and grip flat, round or irregular shaped objects
- Jaws maintain spacing when pressure is released (less hand fatigue)



TT-240 PowrStrip

Precision Automatic Wire Stripper

Features:

- Automatially strips wire from 8 to 30 AWG
- Crimps insulated and non-insulated wire
- Built-in wire cutter
- Comfortable spring loaded handles
- Ideal for low voltage and alarm installs



TT-242 CablCut

Cable Cutter

Features:

- Cuts multi-wire copper cable up to 3/8" diameter
- Curved double ground SK-5 cutting blades
- Precision 10 to 20 AWG wire stripper
- Corrosion resistant Black Oxide finish
- Rubber handles increase grip and comfort



TT-260 Cross Jaw Pliers

Extended Reach Needle Nose Pliers

Features:

- Twin X double joint design; fits in tighter spaces
- Serrated jaws for better grip
- Flat rivet design gives added strength & narrow profile
- Corrosion resistant
- Rubberized grips



TT-270 8" Linesman Pliers

Clean cut from soft wire to high tensile wire

Features:

- Hot forged Chromium molybdenum steel
- Precise & ultra-smooth joint with no side play
- Serrated jaws
- Capacity: medium hard wire 0.15" (3.8mm); hard wire 0.1" (2.5mm)
- PVC dipped handle



TT-275 8" Long Nose Plier

Serrated jaws for firmer gripping

Features:

- Hot forged Chromium molybdenum steel
- Precise & ultra-smooth joint with no side play
- Capacity: medium hard wire 0.13" (3.2mm); hard wire 0.1" (2.2mm)
- PVC dipped handle



Ordering Information:

TT-221	ClikGrip Pliers
TT-240	PowrStrip
TT-242	Cable Cutter
TT-260	Cross Jaw Pliers
TT-270	8" Linesman Pliers
TT-275	8" Long Nose Plier





TT-280 10" Water Pump Plier

19 smooth position adjustments

Features:

- Induction hardened jaws up to 58HRC
- Capacity: 1.9" (50mm)
- One hand operation
- PVC dipped handle



TT-285 10" Crimping Plier

For insulated and non-insulated terminals

Features:

- Copper wire cutter up to 12AWG (2mm)
- Heat treated middle carbon steel
- Capacity: 22 to 10AWG
- PVC dipped handle



TT-290 Multifunctional Pliers

Needle Nose Plier cuts, strips and crimps

Features:

- Polished, Chrome Vanadium material
- Drop Forged & Heat Treated for exceptional strength & durability
- 6 in 1 Functions
 1. Gripping and Looping
 2. Screw Extractor
 3. Stripping 10-18 AWG Solid 12-20 AWG stranded
 4. Wire Cutting 2.0mm
 5. Screw Shearing: 6-32 & 8-32 screw
 6. Crimping
- Comfortable grip & handle material: Thermoplastic Rubber
- Size: 8.5" (212mm)
- Weight: 282g



TT-320 8-Piece Quick Change Ratchet Crimper

7 interchangeable die heads for the most commonly used insulated and non-insulated terminals



Features:

- 4140 forged steel die heads with zinc phosphate surface treatment
 - Insulated Terminals: AWG 22-18/16-14/12-10 (0.5-1.0/1.5-2.5/4.0-6.0 mm2)
 - Non-Insulated Terminals: AWG 20-18/16-14/12-10/8 (1.5/2.5/6.0/10 mm2)
 - Open Barrel Terminals: AWG 20-18/16-14/12-10 (0.5-1.0/1.5-2.5/4.0-6.0 mm2)
 - Cord End Terminals: AWG 22/20/18/16/14/12 (0.5/0.75/1.0/1.5/2.5/4.0 mm2)
 - Cord End Terminals: AWG 10/8/6 (6.0/10/16 mm2)
 - Open Barrel Terminals & D-SUB, V.35: AWG 14/22/8-6 (2.5/0.5/8.0-10 mm2)
 - BNC RG58, RG59, RG62, RG6: .255/.213/.100/.068/.324" (6.48/5.41/2.54/1.72/8.23mm2)
- Carbon Steel Crimper Body
- Polypropylene (PP) and Thermoplastic Rubber (TPR) Handles
- Includes Crimper, 7 die heads, and a hard carrying case that keeps the die heads organized and protected during storage



Ordering Information:

TT-280	10" Water Pump Plier
TT-285	10" Crimping Plier
TT-290	8.5" Multifunctional Pliers
TT-320	8-Piece Quick Change Ratchet Crimper



Hand Tools

HAND TOOLS

TPAL-X Professional Autoloader Multi-Bit Screwdriver

Features:

- 18-tooth ratchet driver with forward, reverse and lock
- Custom-designed Bit Viewer lets you select the right bit instantly from the Quick-Change Barrel
- Comes with 2 Quick-Change Barrels and 12 bits including: Slotted - 1/8", 5/32", 3/16"; Phillips - PH1, PH2, PH3; Hex H3, H4, H5; Torx - T10, T15, T20
- Quick-Change Barrel stores in handle when not in use
- Works with Triplet's TSBK-001 Security Bit-Kit set
- Lifetime warranty on mechanism; 1 year on bits



TMAL-002 Mini Autoloading, Ratcheting Screwdriver

Features:

- Gearless ratchet driver with forward, reverse and lock
- Comfortable yet rugged design
- 10 magnetic bits
- Complete with:
 - Slotted - 3/32, 1/8, 5/32
 - Phillips - 000, 00, 0
 - Torx - T5, T6, T8, T10



Applications:

- Repairs, battery replacements and adjustments

TSBK-001 Security Bit Kit

Features:

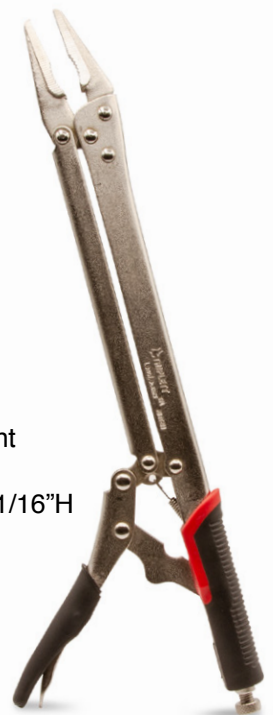
- 30 Industrial Grade tamper proof bits including: Phillips Tamper, Torx Tamper, Hex Tamper, and Spanner
- Phillips Tamper: #2, #3; Torx Tamper: 5, 6, 7, 8, 9, 10, 15, 20, 25, 27, 30, 40; Hex Tamper: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"; Spanner: 4, 6, 8, 10, 12, 14
- Includes quick-release 1/4" magnetic drill adapter, 1/4" hex to 1/4" socket adapter and storage case with belt clip
- 1 year warranty



TT-200 Extended Reach Locking Pliers

Features:

- Needle nose jaws for gripping small objects and a curved jaw for gripping round objects
- Non-slip handles are cushioned to provide comfort to operators
- Thumbscrew allows size and pressure to be easily adjusted
- Serrated teeth provide tight grip
- Easy release lever
- Durable heat treated high carbon steel construction with rust resistant finish and drop forged jaws
- Dimensions: 15"L x 1-13/16"W x 11/16"H
- Jaw opening: 1-3/4" max at tips, 1-1/4" max at curved pipe grip
- Jaw depth: 1-13/16"
- Lifetime warranty



Ordering Information:

TPAL-X	Professional Autoloader Multi Bit Screwdriver
TMAL-002	Mini Autoloading Ratcheting Screwdriver
TSBK-001	Professional Grade Bit Kit
TT-200	Extended Reach Locking Pliers





TA150 & TA200 Contact & Laser Photo Tachometers

BUILDING, MAINTENANCE & ENVIRONMENTAL



NIST
TRACEABLE
CALIBRATION
AVAILABLE

Features:

- Fast and accurate non-contact RPM measurement of rotating objects
- Wide measurement range and high resolution
- Backlit 5-digit LCD display
- Overmolded housing for added durability
- Optional replacement reflective tape
- 1 year warranty

Model TA150 Photo Tachometer:

- Two test modes: Rotational speed (RPM) and Count mode (REV)
- 19.7" (500mm) maximum target distance
- Memory recalls Min/Max/Last Value stored
- Complete with 23" (58.4cm) reflective tape, 9V battery and carrying case

Model TA200 Contact and Photo Tachometer:

- Contact RPM of rotating objects and linear surface speed measurement
- Laser guided non-contact measurement with 8.2ft (2500mm) maximum target distance
- Memory stores last 10 readings for Min/Max/AVG/Data
- Complete with 2 contact tips/1 wheel, 23" (58.4cm) reflective tape, 9V battery and carrying case



Specifications

	TA150	TA200
Non-Contact Measurement		
RPM Range	2 to 99,999RPM	2 to 200,000RPM
Frequency Range	—	0 to 3333.3Hz
Count Range	1 to 99,999 REV	—
Contact Measurement		
RPM Range	—	2 to 20,000RPM
Contact Ranges	—	0 to 2000m/min; 0 to 78740in/min 0 to 6560.8ft/min; 0 to 2187.2yds/min
Contact Ranges with Wheel	—	0 to 20000 meters; 0 to 787402 inches; 0 to 65608.6 feet; 0 to 21872.2 yards
Dimensions	6.3 x 2.3 x 1.5" (160 x 58 x 39mm)	6.3 x 2.4 x 1.7" (160 x 60 x 42mm)
Weight	5.3oz (151g)	5.6oz (160g)



Ordering Information:

- | | |
|------------|--|
| TA150 | Tachometer Counter |
| TA150-NIST | TA150 with Certificate of Traceability to N.I.S.T. |
| TA200 | Combination Laser Photo & Contact Tachometer |
| TA200-NIST | TA200 with Certificate of Traceability to N.I.S.T. |
| TA200-W | Replacement Wheels for TA200 |
| TATAPE-TP | Replacement Reflective Tape, 10pk |



Infrared Thermometers

BUILDING, MAINTENANCE & ENVIRONMENTAL

IRT225 Non-Contact 10:1 Mini Laser IR Thermometer

Instantly measure the temperature of objects without making contact



Features:

- Built-in laser identifies the measurement area
- Backlit LCD display with selectable °F or °C readout
- Power off memory retains the measurement before the last shutdown
- Automatic Data Hold and Low battery indication
- Auto power off after 8 seconds
- Includes 2 AAA batteries
- 1 year warranty

Specifications



Temperature Range	-4 to 752°F (-20 to 400°C)
Accuracy	±2%
Resolution	0.1°F/°C
Distance to Target Ratio	10:1
Response Time	<500ms
Emissivity	0.95 fixed
Laser	Single Point
Power	2 AA batteries
Dimensions / Weight	5.4 x 2.9 x 1.5" (137 x 73 x 39mm) /5.2oz (148.5g)

IRT220 Non-Contact 12:1 Laser IR Thermometer

Instantly measure the temperature with Min/Max of objects without making contact

Features:

- Built-in laser identifies the measurement area
- Backlit LCD display with selectable °F or °C readout
- 0.95 fixed emissivity
- Min/Max to monitor lowest and highest measurement readings
- Automatic Data Hold
- Auto power off after 10 seconds
- Complete with 9V battery
- 1 year warranty



Applications:

- Measure the surface temperature of objects that are too hot to touch or hard to reach
- Measure moving objects

Specifications



Temperature Range	-4 to 932°F (-20 to 500°C)
Accuracy	±2%
Resolution	0.1°F/°C
Distance to Target Ratio	12:1
Response Time	500ms
Emissivity	0.95 fixed
Power	9V battery
Dimensions	5.4 x 2.9 x 1.5" (137 x 73 x 39mm)
Weight	5.2oz (148.5g)

Ordering Information:

IRT225	Non-Contact 10:1 Mini Laser IR Thermometer
IRT225-NIST	IRT225 with Certificate of Traceability to N.I.S.T.
IRT220	Non-Contact 12:1 Laser IR Thermometer
IRT220-NIST	IRT220 with Certificate of Traceability to N.I.S.T.



IRT227 12:1 Laser IR Thermometer & Type K

Non-contact surface temperatures & contact measurements using type K thermocouple



NIST
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CALIBRATION
AVAILABLE

Features:

- Instantly measure the temperature of objects without making contact
- Built-in laser identifies the measurement area
- Audible and Visual High/Low Temperature Alarms
- Min/Max/Avg/Diff
- Backlit LCD display with selectable °F or °C readout
- Automatic Data Hold
- Auto power off after 10 seconds
- Battery capacity indicator
- Includes Type K bead probe and 9V battery
- 1 year warranty

Specifications

RoHS CE

IR Temperature Range	-58 to 1112°F (-50 to 600°C)
Accuracy	±3% or 4°F/2°C
Resolution	0.1°F/°C
Distance to Target Ratio	12:1
Response Time	<500ms
Emissivity	0.05 to 1.00 adjustable
Laser	Single point
Type K Temperature	-58 to 1832°F (-50 to 1000°C)
Accuracy	±(3% + 1.8°F/1°C)
Air Temperature	-4 to 158°F (-20 to 70°C)
Accuracy	±3.6°F/2°C
Power	9V battery
Dimensions	6 x 4.7 x 1.7" (153 x 120 x 42mm)
Weight	4.9oz (138g)

IRT350 Non-Contact 12:1 Circular Laser IR Thermometer

Features:

- Circular laser accurately indicates the target area within the circle
- Bright, color EBTN display (Enhanced Black Twisted Nematic)
- Real time clock with scheduled measurement (99 measurements from 1 minute up to 4 days)
- Min/Max/Avg/DIF
- Last measurement recall after auto power off
- Lock function for continuous measurement (1 minute to 5 hours)
- Complete with 9V battery, tripod mount and pouch case
- 1 year warranty



NIST
TRACEABLE
CALIBRATION
AVAILABLE

Specifications

RoHS CE

Temperature Range	-4 to 1112°F (-20 to 600°C)
Accuracy	±1.5%
Resolution	0.1°F/°C
Distance to Target Ratio	12:1
Response Time	250ms
Emissivity	0.1 to 1.0 adjustable with 5 preset values
Audible/Visual Alarm	High/Low with 5 preset values
Power	9V battery
Memory	Manual store/recall 99 readings
Dimensions	6.4 x 3.5 x 1.9" (161.5 x 90 x 48mm)
Weight	7.2oz (204g)



Ordering Information:

IRT227	12:1 Laser IR Thermometer & Type K
IRT227-NIST	IRT227 with Certificate of Traceability to N.I.S.T.
IRT350	Non-Contact 12:1 Circular Laser IR Thermometer
IRT350-NIST	IRT350 with Certificate of Traceability to N.I.S.T.



Infrared Thermometers

IRT150 Stem Thermometer & IR

Built-in fold-out probe for quick and accurate measurements

Features:

- HACCP approved
- Use non-contact IR Thermometer for surface temperatures or stem probe for internal temperatures
- High/Low alarms
- Backlit display for use in poorly lit areas
- Waterproof (IP65)
- Built-in flashlight
- Includes (2) AAA batteries
- 1 year warranty



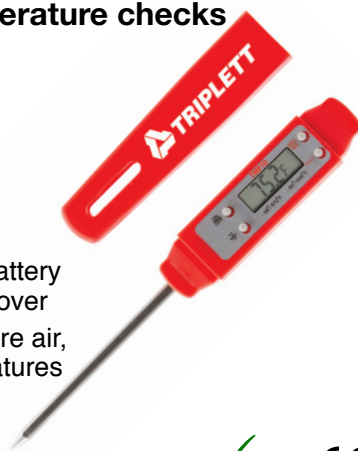
RoHS CE

TMP10 Pocket Thermometer

Ideal for quick temperature checks

Features:

- 2.9" (73mm) stainless steel probe
- Data Hold freezes the reading on the display
- Min/Max with reset
- Complete with LR44 battery and protective probe cover
- Can be used to measure air, liquids or food temperatures
- 1 year warranty



RoHS CE

Specifications

Temperature Range	-58 to 572°F (-50 to 300°C)
Accuracy	±1.8°F / 1°C within 32 to 212°F (0 to 100°C); ±3.6°/2°C (other ranges)
Resolution	0.1°F/°C
Stem	2.9" (73mm) SUS304 Food Grade Stainless Steel
Power	LR44
Dimensions/Weight	5.7 x 0.8 x 0.5" (145 x 19.9 x 15mm) / 1oz (26g)

Ordering Information:

IRT150	Stem Thermometer and IR
FT2020	Non-Contact Forehead IR Thermometer
TMP10	Pocket Thermometer
TM020	Indoor/Outdoor Thermometer

FT2020 Non-Contact Forehead IR Thermometer

Front-line screening device to quickly scan for elevated forehead temperature

Features:

- Instantly measure forehead temperature 89.6 to 108.5°F (32 to 42.5°C) without making contact
- ±0.4°F (0.2°C) accuracy
- Fast 500ms response time
- 2 to 6" (5 to 15cm) recommended measuring distance
- Backlit LCD display with selectable °F or °C readout
- Measure surface temperature of objects from 32 to 140°F (-0 to 60°C)
- 0.95 fixed emissivity
- Data Hold, auto power off
- Includes 9V battery
- 1 year warranty



RoHS CE

TM020 Indoor/Outdoor Thermometer

Displays indoor/outdoor temperature, humidity (indoor only) and time

Features:

- Humidity range (indoor only): 10 to 99%RH
- Real time 12/24 hour clock with alarm
- Internal memory stores Min/Max readings
- Includes internal and weatherproof outdoor temperature sensor with 9.6ft (3m) cable, built-in stand & AAA battery
- 1 year warranty



Specifications

RoHS CE

Indoor Air Temperature	32 to 122°F (0 to 50°C)
Outdoor Air Temperature	-58 to 158°F (-50 to 70°C)
Accuracy/Resolution	±2°F/1°C/0.1°F/°C
Relative Humidity	10 to 99%RH
Accuracy	±5%RH
Dimensions / Weight	4.25 x 4 x 0.8" (110 x 102 x 20mm) / 5oz (142g)

BUILDING, MAINTENANCE & ENVIRONMENTAL



TMP230 Deep Fryer Oil Tester

Simultaneously displays Temperature and TPM (Total Polar Materials)



Features:

- Accurately measures cooking oil for correct temperature setting
- TPM value (%) is an indicator for the aging of the cooking oil
- The higher the %TPM reading, the more aged the oil is
- Includes (2) AAA batteries and carrying case

Specifications



Temperature Range	86 to 392°F (30 to 200°C)
Accuracy	±3.0°F/1.5°C
TPM Range	0.5 to 40% polar fractions
Accuracy	±2%
Resolution	0.1°F/°C; 0.5%
TPM Response Time	<30 seconds
Power	(2) AAA Batteries
Dimensions	14.4 x 1.9 x 1" (365 x 48 x 26mm)
Weight	8.8oz (248g)

TMP50 & TMP60 Single or Dual Input Thermometers

Type K input thermometers with °C, °F or °K

Features:

- Adjustable offset for probe compensation
- Min/Max/Average with elapsed time reference
- Data Hold freezes readings on the display
- Programmable auto power off with disable
- Includes 3 AAA batteries and Type K Thermocouple bead probe - TMP60 includes 2 probes
- 1 year warranty



TMP60 Additional Features

- Measure on T1, T2 and T1-T2 (Differential)



Specifications



Type K Temperature Range	-328 to 2501°F (-200 to 1372°C)
Type J Temperature Range	-346 to 2012°F (-210 to 1100°C)
Accuracy	±(0.15% + 1.8°F/1°C) above -148°F (-100°C) ±(0.5% + 3.6°F/2°C) below -148°F (-100°C)
Resolution	0.1°F/°C
Power	(3) AAA batteries
Dimensions	8.7 x 2.5 x 1.1" (220 x 63 x 28mm)
Weight	7oz (200g)

Ordering Information:

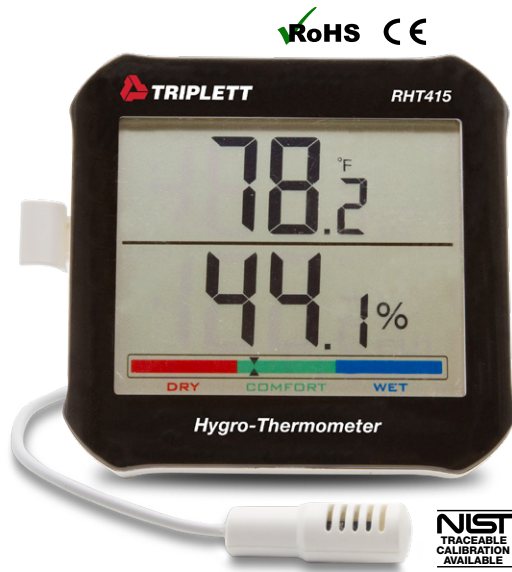
TMP50	Single Input Type K/J Thermometer
TMP50-NIST	TMP50 with Certificate of Traceability to N.I.S.T.
TMP60	Dual Input Type K/J Thermometer
TMP60-NIST	TMP60 with Certificate of Traceability to N.I.S.T.
TMP230	Deep Fryer Oil Tester



Hygro-Thermometers

RHT415 Hygro-Thermometer with Remote Probe

Color-coded bargraph indicates Dry/Comfortable/Wet conditions



Features:

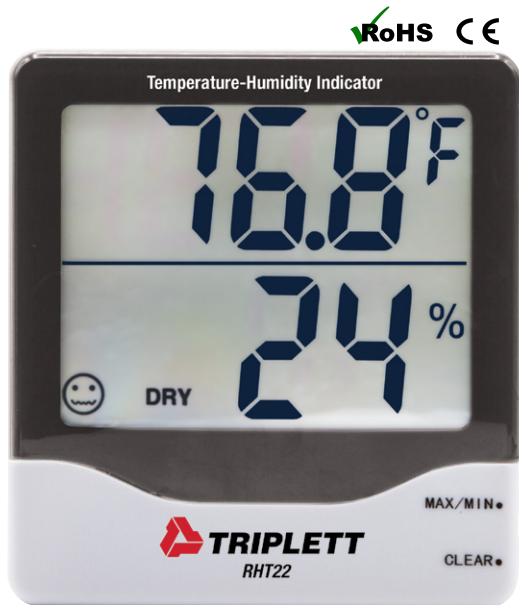
- Dual LCD display and bargraph
- °F/°C switchable
- Low battery indicator
- Desktop or wall-mount use
- Includes built-in stand, remote sensor with 5ft (1.5m) cable and (2) AA batteries
- 1 year warranty

Applications:

Greenhouses, warehouses, museums, hospitals, libraries, offices, storage areas, building inspection and water restoration

RHT22 Hygro-Thermometer

Dual display for simultaneous viewing of Temperature and Humidity



Features:

- For use in labs, green houses, cleanrooms, warehouses, museums, offices, schools and homes
- Icons indicate comfortable, wet or dry humidity conditions
- Large, easy to read display is °F/°C switchable
- Min/Max with reset to monitor changing conditions
- Temperature and humidity range: 32 to 122 °F (0 to 50 °C) 10 to 99%RH
- Wall mount or built-in stand for desk mounting
- Complete with AAA battery
- 1 year warranty

Applications:

Monitor Temperature and Humidity in virtually any indoor setting



Ordering Information:

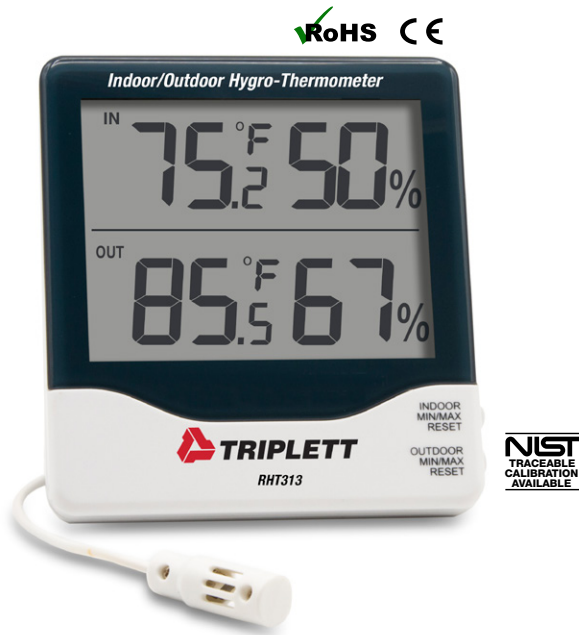
RHT415	Hygro-Thermometer with Remote Probe
RHT415-NIST	RHT415 with Certificate of Traceability to N.I.S.T.
RHT22	Temperature and Humidity Indicator
RHT22-NIST	RHT22 with Certificate of Traceability to N.I.S.T.

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RHT313 Indoor/Outdoor Hygro-Thermometer

Simultaneous display of Indoor/Outdoor Temperature and Humidity



Features:

- Temperature ranges:
Indoor: 32 to 122°F (0 to 50°C)
Outdoor: -58 to 158°F (-50 to 70°C)
- Humidity range: 10 to 99%RH
- °F/°C switchable
- Min/Max records the highest and lowest readings of both indoor and outdoor temperature/humidity
- Includes internal and outdoor temperature/humidity sensor with 3ft (1m) cable, built-in stand and AAA battery
- 1 year warranty

Applications:

Building inspection, water restoration, greenhouses, warehouses, museums, libraries, offices, hospitals, storage areas

RHT12 Hygro-Thermometer

Dual display of Humidity and Temperature

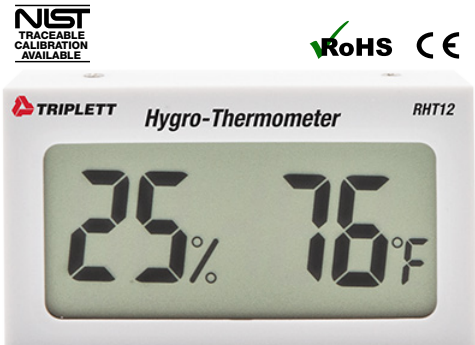


Features:

- For use in labs, green houses, cleanrooms, warehouses, museums, offices, schools and homes
- Small profile fits easily in precision instrument, camera equipment and musical instrument cases, humidors, terrariums and other enclosed displays
- °F/°C switchable
- Temperature and humidity range: 14 to 122 °F (-10 to 50 °C) 10 to 99%RH
- Built-in stand for desk mount
- Complete with LR44 battery
- 1 year warranty

Applications:

Monitor Temperature and Humidity in general areas or in confined spaces



Ordering Information:

RHT313	Indoor/Outdoor Hygro-Thermometer
RHT313-NIST	RHT313 Including Certificate of Traceability to N.I.S.T.
RHT12	Hygro-Thermometer
RHT12-NIST	RHT12 Including Certificate of Traceability to N.I.S.T.



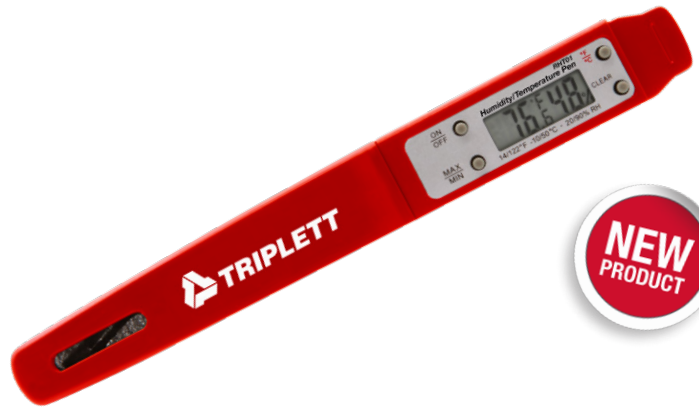
Hygro-Thermometers

RHT01 Humidity Pen

Built-in sensors provide simultaneous readings of Relative Humidity and Temperature

Features:

- Dual LCD for simultaneous display of Relative Humidity and Temperature
- Temperature is °C/°F switchable
- Pocket size (with pocket clip) for quick and reliable measurements at any location
- Max/Min for both Temperature & Humidity
- 1 year warranty



Specifications

	% Relative Humidity	Temperature
Range	10 to 85%	14 to 122°F (-10 to 50°C)
Basic accuracy	± 5%	± 2°F/1°C
Resolution	1%RH	0.1°C or °F
Sensor Type	Resistive ceramic	Thermistor
Power	One LR44 button battery (included)	
Dimensions / Weight	5.9 x 0.8 x 0.7" (150 x 20 x 18mm) 0.1°F/°C; 0.1%RH / 0.7oz (20g)	

RHT02 & RHT05 Hygro-Thermometer Pens

Two models provide humidity/temperature measurements, with option of wetbulb and dew point

Features:

- Dual LCD for simultaneous display of Relative Humidity and Temperature
- Temperature is °C/°F switchable
- Pocket size (with pocket clip) for quick and reliable measurements at any location
- Data Hold, Min/Max, Auto power off with disable
- Sensor is protected by built-in twist open/close cap
- 1 year warranty



Specifications

	Model RHT02:	Model RHT05:
Air Temperature	-4 to 140°F (-20 to 60°C)	
Accuracy	±1.1°F/0.6°C	
Relative Humidity	0 to 100%RH	
Accuracy	±3%RH (10 to 90%RH)	
Wet Bulb		-4 to 139.8°F (-20 to 59.9°C)
Dew Point		23 to 140°F (-5 to 59.9°C)
Resolution	0.1°F/°C; 0.1%RH	
Power	1 CR2032 Battery (included)	
Dimensions / Weight	6.9 x 1.7 x 0.6" (175 x 42 x 16mm) / 1.9oz (55g)	

Model RHT05: Displays Humidity & Air Temperature, or Wet Bulb, or Dew Point



Ordering Information:

RHT01	Humidity Pen
RHT02	Hygro-Thermometer Pen
RHT02-NIST	RHT02 with Certificate of Traceability to N.I.S.T.
RHT05	Hygro-Thermometer Pen with Wet Bulb & Dew Point
RHT05-NIST	RHT05 with Certificate of Traceability to N.I.S.T.





RHT32 Hygro-Thermometer Psychrometer

Simultaneously displays Air Temperature, Humidity and Wet Bulb or Dew Point



Features:

- Triple LCD display
- Turnable cap twists to protect the sensor during storage or travel
- °F/°C switchable
- Min/Max, Data Hold, Auto power off with disable
- Low battery indicator
- Optional external thermistor temperature probe
- 1 year warranty

Specifications



Air Temperature	-4 to 122°F (-20 to 50°C)
Accuracy	±1.8°F/1°C
Relative Humidity	1 to 99.9%RH
Accuracy	±3%RH (10 to 90%)
Wet Bulb	-6.8 to 122°F (-21.6 to 50°C)
Dew Point	-109.6 to 122°F (-78.7 to 50°C)
Resolution	0.1°F/°C; 0.1%RH
Power	2 AAA batteries (included)
Dimensions / Weight	7 x 2 x 1" (178.5 x 48.4 x 24.7mm) / 3.4oz (95g)

RHT37 Digital Psychrometer with Type K

Measures Air Temperature, Relative Humidity, Wet Bulb, Dew Point and Type K Temperature

Features:

- Dual Type K Temperature inputs for superheat and cooling applications
- T1-T2 (Type K), Air Temperature - T1 and T1-Dew Point differential temperature measurement
- Backlit LCD display
- Turnable cap twists to protect the sensor during storage or travel
- °F/°C switchable
- Built-in real time clock
- Manually store/recall 99 readings
- Min/Max/Average recalls highest, lowest readings with date and time stamp plus average readings
- Data Hold and Auto power off with disable
- Low battery indicator
- Tripod mount (tripod not included)
- Includes (2) Type K Temperature bead probes and (4) AAA batteries
- 1 year warranty



Specifications



Air Temperature	-4 to 122°F (-20 to 50°C)
Accuracy	±1.8°F/1°C
Relative Humidity	1 to 99.9%RH
Accuracy	±3%RH (10 to 90%)
Type K Temperature	-328 to 2498°F (-200 to 1370°C)
Accuracy	±0.3%
Wet Bulb	-6.9 to 122°F (-21.6 to 50°C)
Dew Point	-109.7 to 122°F (-78.7 to 50°C)
Resolution	0.1°F/°C; 0.1%RH
Power	(4) AAA Batteries
Dimensions	9.0 x 2.2 x 1.7" (230 x 57 x 44mm)
Weight	5.3oz (153g)

Ordering Information:

RHT32	Hygro-Thermometer Psychrometer
RHT32-NIST	RHT32 with Certificate of Traceability to N.I.S.T.
RHT37	Digital Psychrometer with Type K
RHT37-NIST	RHT37 with Certificate of Traceability to N.I.S.T.



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RHT45 Digital Psychrometer with Type K Thermometer

Measures Air Temperature, Relative Humidity, Wet Bulb, Dew Point, and Type K Temperature



Features:

- Displays Target Superheat and Target Evaporator Exit Temperature
- Min/Max, Data Hold and Auto power off
- Durable housing is double molded
- Includes Type K Temperature bead probe, (3) AAA batteries and pouch case
- 1 year warranty

Specifications



Air Temperature / Accuracy	32 to 140°F (0 to 60°C) / ±1.8°F/1°C
Relative Humidity / Accuracy	0 to 100% RH / ±2.5 RH (10 to 90%)
Type K Temperature / Accuracy	-58 to 2501°F (-50 to 1372°C) / ±(0.5% rdg + 1.8°F/1°C)
Wet Bulb	32 to 140°F (0 to 60°C)
Dew Point	32 to 140°F (0 to 60°C)
Resolution	0.1°F/°C; 0.1% RH
Dimensions/Weight	7.4 x 2.5 x 1.1" (187 x 63 x 28mm) / 6.2oz (176g)

RHT60 Precision Psychrometer

High accuracy to 2% plus fast response time (<30 seconds)

Features:

- Simultaneous display of:
 - Humidity/Temperature
 - Humidity/Dew Point
 - Humidity/Wet Bulb
- °F/°C switchable
- Easy one hand operation with rubberized sides
- Data Hold and Min/Max functions
- Auto power off with disable and low battery indicator
- Includes case and 9V battery
- 1 year warranty



Specifications



Air Temperature	-22 to 199°F (-30 to 100°C)
Accuracy	±0.9°F/0.5°C (at 25°C) ±1.5°F/0.8°C (all other ranges)
Relative Humidity / Accuracy	0 to 100% RH / ±2% RH (10 to 90%)
Wet Bulb	32 to 176°F (0 to 80°C)
Dew Point	-22 to 199°F (-30 to 100°C)
Resolution	0.1°F/°C; 0.1% RH
Dimensions	8.9 x 1.7 x 1.3" (225 x 45 x 34mm)
Weight	7oz (200g)

Ordering Information:

RHT45	Digital Psychrometer with Type K Thermometer
RHT45-NIST	RHT45 with Certificate of Traceability to N.I.S.T.
RHT60	Precision Psychrometer
RHT60-NIST	RHT60 with Certificate of Traceability to N.I.S.T.



RHT52 Psychrometer + IR Thermometer

Measures Air Temperature, Relative Humidity, Wet Bulb, Dew Point, plus Type K and IR Temperature



Features:

- 30:1 Non-contact IR Thermometer with laser pointer and 0.95 fixed emissivity
- Triple backlit display
- °F/°C switchable
- Min/Max, Data Hold, Auto power off with disable
- Low battery indicator
- Includes Type K Temperature bead probe, USB cable, data acquisition software and 9V battery
- 1 year warranty

Specifications



Relative Humidity / Accuracy	10 to 90%RH / ±2%RH
Air Temperature / Accuracy	-4 to 140°F (-20 to 60°C) / ±(2% + 2°F/1°C)
Type K Temperature / Accuracy	-148 to 2501°F (-100 to 1372°C) / ±(3% + 4°F/2°C)
Infrared Temperature / Accuracy	-58 to 932°F (-50 to 500°C) / ±2% or 4°F/2°C
Wet Bulb	-6.88 to 140°F (-21.6 to 60°C)
Dew Point	-90.4 to 140°F (-68 to 60°C)
Resolution	0.1°F/°C; 0.1%RH
Dimensions/Weight	10.1 x 3 x 2" (257 x 76 x 53mm) / 12.5oz (355g)

RHT70 Hygro-Thermometer + Infrared Thermometer

Large dual display measures Humidity or IR Temperature and Air Temperature



Features:

- 8:1 IR Thermometer with laser pointer for non-contact surface measurements
- Dual backlit LCD display
- °F/°C switchable
- Calculate differential temperature readings
- Side buttons allow for easy operation
- Max Hold, Data Hold and Auto power off
- Low battery indicator
- Tripod mount (tripod not included)
- Includes Humidity/Temperature probe with 39" (1m) cable, protective rubber holster, 9V battery and carrying case
- 1 year warranty



Specifications



Relative Humidity / Accuracy	10 to 95%RH / ±3.5%RH
Air Temperature / Accuracy	-4 to 140°F (-20 to 60°C) / ±3°F/2°C
Infrared Temperature / Accuracy	-58 to 932°F (-50 to 500°C) / ±2% or 4°F/2°C
Resolution	-90.4 to 140°F (-68 to 60°C)
Dimensions/Weight	5.9 x 2.8 x 1.4" (150 x 72 x 35mm) / 8.3oz (235g)

Ordering Information:

RHT52	Psychrometer & IR Thermometer
RHT52-NIST	RHT52 with Certificate of Traceability to N.I.S.T.
RHT70	Hygro-Thermometer & IR Thermometer



Humidity & Temperature Dataloggers

RHDL30 and RHDL40 PDF Dataloggers

Download recorded data in PDF format with graph or Excel (.csv)



NIST TRACEABLE CALIBRATION AVAILABLE

RoHS CE

Specifications

	RHDL30	RHDL40
Air Temperature / Accuracy	-22 to 158°F (-30 to 70°C) / ±1.0°F/0.5°C	-22 to 158°F (-30 to 70°C) / ±1.0°F/0.5°C
Relative Humidity / Accuracy	0.1 to 99.9%RH / ±3%RH (10 to 90%)	0.1 to 99.9%RH / ±3%RH (10 to 90%)
Barometric Pressure	-----	300 to 1100hpa 8.9 to 32.5inHg
Accuracy	-----	±3 (32 to 140°F/0 to 60°C) ±5 (-4 to 32°F/-20 to 0°C)
Resolution	0.1°F/°C; 0.1%RH	0.1°F/°C; 0.1%RH; 0.1hpa; 0.1inHg
Datalogging Points	24,000 Temperature 24,000 Humidity	16,000 Temperature 16,000 Humidity 16,000 Barometric Pressure
Sampling Intervals	30s, 5m, 10m, 30m, 60m, 90m, 120m	30s, 5m, 10m, 30m, 60m, 90m, 120m
Dimensions	4.3 x 1.8 x 0.7" (110 x 45 x 17mm)	4.3 x 1.8 x 0.7" (110 x 45 x 17mm)
Weight	1.8oz (50g)	1.8oz (50g)

Features:

- Two Models:
 - RHDL30** for Humidity & Temperature
 - RHDL40** for Humidity, Temperature & Barometric Pressure
- Password protection
- User programmable Start and Alarm delays
- Mark up to 8 events
- Min/Max recalls highest and lowest readings
- 6 languages (English, German, French, Italian, Spanish & Portuguese)
- USB interface - download in PDF or Excel
- Includes (2) CR2032 batteries and cover with built-in stand
- 1 year warranty

RHDL50 USB Temperature/Humidity Datalogger

Built-in 2000 count LCD display



Features:

- Record up to 16,000 readings each for Temperature and Humidity
- User adjustable sampling rate from 2 seconds to 24 hours
- High/Low Alarms with visual alert when settings are exceeded
- 2 LEDs indicate status
- USB interface for transferring recorded data to your PC
- Optional model complete with Certificate of Traceability to N.I.S.T.
- Includes 3.6V Lithium battery and analysis software
- 1 year warranty



37-66 Optional Replacement 3.6V Lithium Battery

NIST TRACEABLE CALIBRATION AVAILABLE

Ordering Information:

RHDL30	Humidity & Temperature PDF Datalogger
RHDL30-NIST	RHDL30 with Certificate of Traceability to N.I.S.T.
RHDL40	Humidity, Temperature & Barometric Pressure PDF Datalogger
RHDL40-NIST	RHDL40 with Certificate of Traceability to N.I.S.T.
RHDL50	USB Temperature/Humidity Datalogger with display
RHDL50-NIST	RHDL50 with Certificate of Traceability to N.I.S.T.
37-66	3.6V Lithium Battery, AA, 2pk

Specifications

RoHS CE

Temperature	-40 to 158°F (-40 to 70°C)
Accuracy	±1.8°F/1.0°C
Relative Humidity	0 to 100%RH
Accuracy	±3.5%RH
Resolution	0.1°F/°C; 0.1%RH
Datalogging Points	16,000 Temperature / 16,000 Humidity
Sampling Intervals	2sec to 24hr
PC Interface	USB
Power	3.6V Lithium Battery
Dimensions	5.1 x 1.2 x 1" (130 x 30 x 25mm)
Weight	0.7oz (20g)



EPC600 Environmental Particle Counter

Simultaneously measure and display 6 channels of particle sizes down to 0.3µm



Built-in camera captures images and video.

Features:

- Measure Air Temperature, Humidity, Dew Point and Wet Bulb
- Built-in camera (320 x 240) captures images (JPEG) and video (3GP)
- 2.8" Color TFT display
- Store up to 5000 records with date/time, counts, temperature, humidity, sample volume, alarms and location label
- Selectable sample time, count data and programmable delay
- Internal memory plus microSD card slot (SD card not included; uses 8GB max)
- 5 languages (English, French, German and Spanish)
- USB interface
- Includes Certificate of Traceability to N.I.S.T. at time of manufacture, 7.4V Li-ion rechargeable battery, Universal AC adapter, zero filter, tripod and USB cable
- 1 year warranty

Applications:

Handheld particle counters are typically used for IAQ (indoor air quality) testing. Their size and portability makes them easy to transport to different test sites. They work by counting and sizing the number of particles in the air. This can help determine the air quality level in a building or industrial work environment. Industries include semi-conductors, pharmaceuticals, data centers, optics, aerospace, cleanrooms, operating rooms and other sensitive applications.



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Specifications

Channels	0.3, 0.5, 1.0, 2.5, 5.0, 10µm
Flow Rate	0.1ft3 (2.83L/min) internal pump
Count Mode	Cumulative, Differential, Concentration
Coincidence Loss	5%, 2,000,000 particles per ft3
Air Temperature Range	32 to 122°F (0 to 50°C); ±1°F/0.5°C accuracy
Humidity range	0 to 100%RH
Humidity accuracy	±3%RH at 40% to 60%; ±3.5%RH at 20-40% and 60-80% ±5%RH at 0-20% and 80-100%
Dew Point	22 to 199°F (30 to 100°C)
Wet Bulb	32 to 176°F (0 to 80°C)
Built-in Camera	Record images (JPEG) and Video (3GP)
Memory	74MB internal; microSD card slot 8GB max (card not included)
PC Interface	USB
Power	AC Adapter/Charger; 7.4V rechargeable battery
Dimensions / Weight	9.6 x 3 x 2.2" (243 x 74 x 55mm) / 15.2oz (430g)



Ordering Information:

EPC600 Environmental Particle Counter



Air Quality Meters

EPC175 Particle Counter/Air Quality Meter

Displays Particle Count (PM2.5/PM10), Air Temperature, Relative Humidity, Formaldehyde (HCHO) and TVOCs

Features:

- 3" Color TFT display with 5 brightness levels
- Memory stores 5000 data sets (PM2.5, PM10, date and time) and can be displayed as historical data curves
- PM2.5 programmable alarm with 5 selectable levels (10, 35, 75, 150, 200ppm)
- Programmable auto power off/auto sleep with disable
- Auto sleep turns off the display but measurement still continues
- Includes (1) Li-ion battery, AC Adapter and USB cable
- 1 year warranty



Specifications



PM2.5	0 to 999ug/m3
PM10	0 to 999ug/m3
Air Temperature / Accuracy	-4 to 158°F (-20 to 70°C) / ±1.0°F/1°C
Relative Humidity / Accuracy	0 to 100%RH / ±3.5% @20 to 80%RH
Formaldehyde (HCHO) range	0.01 to 5.00ppm
Accuracy	±5%FS
TVOC Range / Accuracy	0.01 to 9.99ppm±5 / %FS
Power	5V/1A AC adapter with battery backup
Dimensions / Weight	6.3 x 3.3 x 2.9" (160 x 85 x 73mm) / 12.7oz (360g)

FM260 Formaldehyde and TVOC Meter

Real-time display of HCHO/CH2O (Formaldehyde) and TVOC (Total Volatile Organic Compounds) concentrations in the air

Features:

- Fuel Cell Formaldehyde Sensor Technology for high accuracy measurement
- Backlit dual LCD and auto power off
- Audible and visual high/low alarms for HCHO
- Includes rechargeable 7.4V Li-Po battery and AC charger/adapter
- 1 year warranty



Specifications



Formaldehyde (HCHO/CH2O) Range	0.00 to 5.00 mg/m ³ (ppm)
Accuracy	±5% FS
Resolution	0.01 mg/m ³ (ppm)
TVOC Range	0.00 to 9.99 mg/m ³ (ppm)
Accuracy	±5% FS
Resolution	0.01 mg/m ³ (ppm)
Response Time	≤ 2 seconds
Power	Rechargeable 7.4V Li-Po Battery
Dimensions	6.5 x 2.4 x 1" (165 x 60 x 25mm)
Weight	20.6oz (584g)

Ordering Information:

EPC175 Particle Counter/Air Quality Meter
 FM260 Formaldehyde and TVOC Meter

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GSM130 Portable Carbon Monoxide (CO) Meter

Eight user selectable alarm settings



Features:

- Simultaneously displays current CO and Max CO levels
- Records maximum reading from power on (with user reset)
- 25ppm default alarm setting with user selectable settings of 30, 35, 40, 45, 50, 70, 100 and 200ppm
- Backlit dual LCD display
- Low battery indicator, Auto power off
- Includes (3) AAA batteries, wrist strap and pouch case
- 1 year warranty

Specifications



Carbon Monoxide (CO)	0 to 999ppm
Accuracy	±20% (0-100ppm) or ±15% (100-500ppm)
Resolution	1ppm
Automatic Calibration	0ppm in fresh air
Sealed Box Calibration	uses 100 and 500ppm standards
CO Alarm	Audible/Visual
CO Alarm Settings	25ppm (default), 30, 35, 40, 45, 50, 70, 100, 200ppm
Dimensions / Weight	6.3 x 2.2 x 1.6" (160 x 56 x 40mm) / 6.35oz (180g)

GSM120 Portable Carbon Monoxide (CO) Meter

Built-in memory stores up to 10 readings



Features:

- Max Hold records the highest reading
- Self calibration in fresh air
- Stabilized electro-chemical gas-specific (CO) sensor
- Measuring Time Mode displays elapsed time from when the meter is powered on
- Backlit LCD display
- Auto power off with disable
- Includes 9V battery, rubber holster and carrying case
- 1 year warranty

Specifications



Carbon Monoxide (CO)	0 to 1000ppm
Accuracy	±5% or ±10ppm (whichever is greater)
Resolution	1ppm
CO Alarm	Audible/Visual
CO Audible Alarm	35ppm (intermittent beep), beep speed increases up to 200ppm (continuous beep)
Memory	Manually store/recall 10 readings
Dimensions / Weight	6.3 x 2.2 x 1.6" (160 x 56 x 40mm) / 6.35oz (180g)



Ordering Information:

- GSM130 Portable Carbon Monoxide (CO) Meter
 GSM120 Portable Carbon Monoxide (CO) Meter



GSM400 Air Quality CO2 Meter

Handheld Meter Measures CO2, Temperature, Humidity, Wet Bulb and Dew Point



Features:

- TWA (Time Weighted Average - 8 hours)
- STEL (Short Term Exposure Limit - 15 minute weighted average)
- NDIR (non-dispersive infrared) waveguide technology
- Backlit triple LCD display
- Min/Max, Data Hold and auto power off with disable
- User-adjustable CO2 alarm level
- °F/°C selectable
- Includes (4) AA batteries and carrying case
- 1 year warranty

Specifications



Carbon Dioxide (CO ₂) / Accuracy	0 to 9999ppm / ±(5% + 30ppm) (0 to 5000ppm)
Air Temperature / Accuracy	14 to 140°F (-10 to 60°C) / ±0.9°F/0.6°C
Relative Humidity / Accuracy	0 to 99.9%RH / ±3%RH (10 to 90%RH)
Wet Bulb	23 to 140°F (-5 to 60°C)
Dew Point	-4 to 140°F (-20 to 60°C)
CO ₂ Alarm	100 to 9900ppm in 100ppm steps
Dimensions/Weight	7.9 x 2.7 x 2.3" (200 x 70 x 57mm) / 6.7oz (190g)

GSM450 Carbon Monoxide/Carbon Dioxide IAQ Meter

Measures CO, CO2, Temperature, Humidity, Wet Bulb and Dew Point



Features:

- Large backlit LCD display with real time clock
- TWA (Time Weighted Average - 8 hours)
- STEL (Short Term Exposure Limit - 15 minute weighted average)
- NDIR (non-dispersive infrared) waveguide technology
- 80dB user-adjustable CO alarm setting
- Min/Max, Data Hold and Auto power off with disable
- °F/°C selectable
- Includes (4) AA batteries, mini USB cable, software and carrying case
- 1 year warranty

Specifications



Carbon Monoxide (CO) / Accuracy	0 to 1000ppm / ±10ppm (<100ppm); ±10% (101-500ppm); ±20% (>500ppm)
Carbon Dioxide (CO ₂) / Accuracy	0 to 9999ppm / ±(30ppm +5% rdg)
Air Temperature / Accuracy	-5 to 140°F (-20 to 60°C) /
Relative Humidity / Accuracy	1 to 99.9%RH / ±3%RH
Wet Bulb	23 to 140°F (-5 to 59.9°C)
Dew Point	-4 to 140°F (-20 to 59.9°C)
Resolution	1ppm; 0.1°F/°C; 0.1%RH
Memory	Manually store/recall 99 readings
Datalogging	32,000 readings
Dimensions / Weight	7.9 x 2.7 x 2.3" (200 x 70 x 57mm) / 6.7oz (190g)

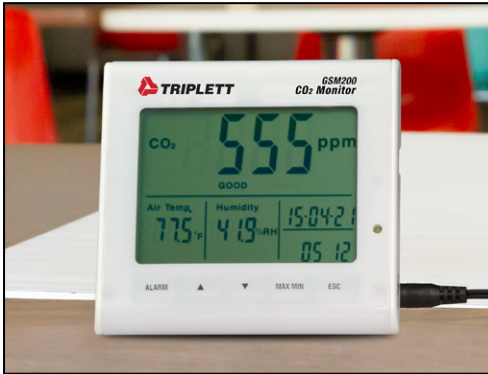
Ordering Information:

- GSM400 Air Quality CO₂ Meter
- GSM450 Carbon Monoxide/ Carbon Dioxide IAQ Meter



GSM200 Desktop Indoor Air Quality CO2 Monitor

Simultaneously displays CO2, Temperature, Relative Humidity, Time and Date



Features:

- 3 Carbon Dioxide status indicators (Good / Normal / Poor) change with CO2 concentration
- User programmable audible/visual CO2 alarms (Good (default 800ppm), Poor (default 1200ppm) with disable)
- Built-in CO2 Automatic baseline calibration for long term drift compensation
- Utilizes NDIR sensor (non-dispersive infrared) waveguide technology
- Real time calendar with date and time
- Min/Max records highest and lowest readings for CO2, Temperature and Humidity
- Data Hold freezes the reading on the display
- °F/°C selectable
- Includes 120V AC adaptor
- 1 year warranty

Specifications



Carbon Dioxide (CO2) / Accuracy	0 to 9999ppm / ±75ppm or 5% of reading
Air Temperature / Accuracy	23 to 122°F (-5 to 50°C) / ±2.7°F/1.5°C
Relative Humidity / Accuracy	0 to 90.0%RH / ±5%RH
Automatic Baseline Calibration	Every 7 days
CO2 Alarm	Audible/Visual
Dimensions	4.6 x 4.0 x 4.0" (117 x 102 x 102mm)
Weight	7.2oz (204g)

GSM250 Desktop or Wall Mount Air Quality CO2 Meter

Desktop or wall mount display with light bar for easy reading from long distances

Features:

- User-adjustable CO2 level alarm with disable
- CO2 Automatic baseline calibration (with disable) for long term drift compensation
- 400ppm manual calibration
- NDIR (non-dispersive infrared) waveguide technology
- Touch panel programming
- 3-color light bar (green / yellow / red) changes color with CO2 concentration
- °F/°C selectable
- Requires power from a USB source: PC, Power bank, 5VDC wall adapter (not included)
- Includes 10ft (3m) USB-C cable (for power source only) and wall mount
- Optional Universal Power Adaptor
- 1 year warranty



Specifications



Carbon Dioxide (CO2) / Accuracy	0 to 9999ppm / ±50ppm + 5% (0 to 2000ppm)
Air Temperature / Accuracy	14 to 140°F (-10 to 60°C) / ±0.9°F/0.6°C
Relative Humidity / Accuracy	0 to 99.9%RH / ±5%RH (10 to 90%RH)
CO2 Alarm	800 to 3000ppm in 100ppm steps (default 1000ppm)
Automatic Baseline Calibration	Every 7.5 days with disable
Power	USB source
Dimensions / Weight	8.9 x 6 x 1.8" (226 x 152 x 45mm) / 17.6oz (500g)

Ordering Information:

GSM200	Desktop Indoor Air Quality CO2 Monitor
GSM250	Desktop or Wall Mount Indoor Air Quality CO2 Meter
UA100	Universal Power Adaptor



UA100 Universal Power Adaptor with Dual USB (see page 65)



GSM220 Desktop CO2 Logger/Monitor

Datalogs up to 5,333 readings for CO2, Temperature and Relative Humidity

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Specifications

Carbon Dioxide (CO2)	0 to 9999ppm
Accuracy	±50ppm ±5% of reading
Air Temperature	14 to 140°F (-10 to 60°C)
Accuracy	±1°F/0.6°C
Relative Humidity	5 to 95.0%RH
Accuracy	±3%RH (10 to 90%RH)
3 Status Icons	Good <700ppm (user adjustable) Normal 700 to 1000ppm (user adjustable) Poor >1000ppm
CO2 Alarm	>1000ppm (user adjustable)
Datalogging	5333 points for each parameter
Power	Universal AC Adapter; 5V/0.5A (included)
Dimensions	4.6 x 4.0 x 4.0" (117 x 102 x 102mm)
Weight	7.2oz (204g)

Features:

- Simultaneously displays CO2, Temperature, Humidity, Time and Date
- Datalogs up to 5333 readings for each parameter
- User adjustable Audible/Visual CO2 alarms with disable
- CO2 Automatic baseline calibration for long term drift compensation
- Manual outdoor air calibration
- NDIR (non-dispersive infrared) waveguide technology
- Real time calendar with date and time
- Min/Max records highest and lowest readings
- °F/°C selectable
- Includes Universal AC adapter, USB cable and software
- 1 year warranty

Ordering Information:

GSM220 Desktop CO2 Logger/Monitor



GSM100 Combustible Gas Detector

Identifies the presence of combustible gases such as methane, propane, butane, ammonia, carbon monoxide and many others

Features:

- TRI Mode Detection: Visual, audible and vibration alerts
- Five red LEDs display threshold levels of measurement with two (Low and High) sensitivity settings
- Audible tick (85dB) and vibration alert rates increase as the detected gas level gets stronger
- 16" (406mm) adjustable gooseneck probe
- Auto zero calibration in fresh air
- Hold button freezes the measurement
- Auto power off with disable conserves battery life
- Includes rechargeable Li-Po battery and AC charger
- 1 year warranty



Specifications

Range	0 to 10,000ppm (Methane)
Sensitivity Level (High)	100/400/700/1000/>1000ppm
Sensitivity Level (Low)	1000/4000/7000/10000/>10000ppm
Sensitivity	<50ppm (Methane)
Response Time	<2 seconds
Warm-up Time	50 seconds max.
Dimensions/Weight	8.7 x 2.4 x 1.6" (220 x 62 x 40mm) / 1lbs (480g)

GSM050 Combustible Gas Leak Detector

Checks for the presence of propane (LPG) or natural gas (LNG)



Features:

- Detect gas leaks from small liquid gas containers such as camping cartridges, lighters, soldering irons and more
- Propane: 500 to 6500 ppm
- Natural gas: 1000 to 6500 ppm
- Audible and visual alerts
- Built-in static electricity discharge check
- Includes pocket clip, protective cap and 2 AAA batteries
- 1 year warranty



Specifications

Measurement ranges	Propane: 500 to 6500 ppm; Natural gas: 1000 to 6500 ppm
Power	2 x 'AAA' 1.5V batteries; 200mA consumption; 4 hour battery life
Operating conditions	50 to 122°F (10 to 50°C); <95% RH non-condensing
Storage conditions	41 to 131°F (5 to 55°C); <5% RH (non condensing)
Dimensions	7.1" Length; 0.8": diameter" (180mm length; 21mm diameter)
Weight	1.6 oz (46g)

Ordering Information:

GSM100	Combustible Gas Detector
GSM050	Combustible Gas Leak Detector



Thermo-Anemometers

AM200 & AM250 Pocket Thermo-Anemometers

Measures Air Velocity, Temperature, Relative Humidity, Dew Point and Windchill

Features:

- Fold up protective housing extends to 9" for better reach
- Large dual display of air velocity and temperature
- Data Hold to freezes display
- Auto power off
- Water resistant to 3ft (1m)
- Includes (1) CR2032 battery and lanyard
- 1 year warranty

Windspeed:

- Measures ft/min, MPH, m/s, km/h, Knots and Beaufort Force
- Selectable averaging function of 5, 10 or 13 second intervals
- Replaceable non-corrosive plastic wind vane (impeller)

Temperature & Windchill:

- Measures from 0 to 122 F (-18 to 50 C)

Model AM250 Additional Features:

Relative Humidity and Dew Point

- Dual display of air velocity and relative humidity
- Measures RH from 10% to 95%
- Measure Dew Point from 32° F to 122° F



Specifications

	Range	Resolution
ft/min (feet per minute)	216 to 3936 ft/min	20ft/min
m/s (meters per second)	1.1 to 20m/s	0.1m/s
km/h (kilometers per hour)	4.0 to 72.0 km/h	0.7km/h
MPH (Miles per hour)	2.5 to 44.7 MPH	0.2MPH
knots (nautical miles per hour)	2.1 to 38.9 knots	0.3 knots
Beaufort Force	1 to 8 BF	1 BF ± 1
Temperature	0 to 122°F (-18 to 50°C)	0.1°F/°C
Relative Humidity (Model AM250)	10% to 95%	1% ± 5%
Dew Point (Model AM250)	32°F to 122°F	0.1°F/°C
Dimensions	5.25 x 2.75 x 0.75" (133 x 70 x 19mm)	
Vane	1"(24mm) diameter	
Weight	3oz (95g)	

Ordering Information:

AM200	Pocket Thermo-Anemometer
AM200-NIST	AM200 with Certificate of Traceability to N.I.S.T.
AM250	Pocket Thermo-Anemometer & Psychrometer
AM250-NIST	AM250 with Certificate of Traceability to N.I.S.T.





CFM100 CFM/CMM Thermo-Anemometer

Measures Air Velocity, Air Flow (volume) and Temperature



Features:

- Side mounted function keys for easy operation
- Dual backlit easy-to-read LCD display
- Memory location stores commonly used area size for easy recall (1 each for CFM and CMM)
- 3% velocity accuracy via low friction 2.83"D (72mm) ball bearing vane wheel on 3.9ft (120cm) cable
- Min/Max/Avg, data hold and auto power off
- Includes 3 AAA batteries and pouch case
- 1 year warranty

Specifications



Air Velocity	Range (Resolution) 80 to 5900 ft/min (1ft/min) 0.4 to 30.00m/s (0.01m/s) 1.4 to 108.0km/h (0.1km/h) 0.9 to 67.0mph (0.1mph) 0.8 to 58.0 knots (0.1 knots)
Accuracy	±3%
Air Flow	Range (resolution) 0 to 999900CFM (0.001CFM) 0 to 999900CMM (0.001CMM)
Air Temperature	32 to 122°F/0 to 50°C (0.1°F/°C)
Accuracy	4°F/2°C
Power	(3) AAA batteries
Dimensions	6.3 x 2.4 x 0.8" (160 x 62 x 21mm)
Weight	7.1oz (200g)

AM320 Thermo-Anemometer + IR

Measure Airflow or Air Velocity Plus Non-Contact Infrared (IR) Thermometer

Features:

- CFM/CMM Thermo- Anemometer with built-in non-contact IR Thermometer measures remote surface temperatures up to 500°F (260°C) with an 8:1 distance to spot ratio and Laser Pointer
- Simultaneous display of Air Flow or Air Velocity plus Ambient Temperature
- Easy to set Area dimensions (ft² or m²) are stored in the meter's internal memory for the next power on
- Resolution of 0.01m/sec
- 20 point average for Air Flow
- Large (9999 count) LCD Backlit Display
- 3% velocity accuracy via low friction 2.83"D (72mm) ball bearing vane wheel on 3.9ft (120cm) cable
- Includes 9V battery & protective rubber holster
- 1 year warranty



Specifications

	Range	Resolution	Basic Accuracy
Air Velocity	0.40 to 30.00 m/s 1.4 to 108.0 km/h 80 to 5906 ft/min 0.9 to 67.2 mph 0.8 to 58.3 knots	0.01 m/s 0.1 km/h 1 ft/min 0.1 mph 0.1 knots	±3% m/s ±3% km/h ±3% ft/min ±3% mph ±3% knots
Air Temperature	14 to 140°F (-10 to 60°C)	0.1°F/°C	±6.0°F (3°C)
Infrared Temperature	-58 to -4°F (-50 to -20°C) -4 to 500°F (-20 to 260°C)	0.1°F/°C 1°F/°C	±9.0°F (5.0°C) ±2% reading or ±2°F (°C)
Air Flow	0 to 999,999 CMM (m3 /min) 0 to 999,999 CFM (ft 3 /min)	0.1 CMM 0.1 CFM	
Dimensions/Weight	7 x 2.9 x 1.3" (178 x 74 x 33mm)/1.6lbs (700g)		

Ordering Information:

CFM100	CFM/CMM Thermo-Anemometer
CFM100-NIST	CFM100 with Certificate of Traceability to N.I.S.T.
AM320	CFM/CMM Thermo-Anemometer + IR
AM320-NIST	AM320 with Certificate of Traceability to N.I.S.T.



Thermo-Anemometers

CFM400 Large Vane CFM/CMM Thermo-Anemometer

Measures Air Velocity, Air Flow (volume) and Temperature

Features:

- 4" vane provides easy & accurate readings on large ducts
- Dual backlit easy-to-read LCD display
- Multi-Point Average and Timed Average modes
- Min/Max recalls highest and lowest readings
- Data Hold freezes the display
- Auto power off with disable
- Includes 4 AAA batteries and hard carrying case
- 1 year warranty

Applications:

HVAC System installation and maintenance, cleanrooms, kitchen exhaust systems, wind power monitoring, construction, sailing/boating, vehicle aerodynamics



Specifications

Air Velocity	Range (resolution)	40 to 5900 ft/min (1ft/min)
		0.2 to 30.00m/s (0.01m/s)
Accuracy		±1.5%
Air Flow	Range (resolution)	0 to 99999CFM (0.1CFM)
		0 to 99999CMM (0.1CMM)
Air Temperature		-4 to 140°F/-20 to 60°C (0.1°F/°C)
Accuracy		±1.1°F/0.6°C
Power		4 x AAA batteries
Dimensions		10.6 x 4.2 x 2" (269 x 106 x 51mm)
Weight		1.6lbs (725g)



Ordering Information:

CFM400 Large Vane CFM/CMM Thermo-Anemometer
 CFM400-NIST CFM400 with Certificate of Traceability to N.I.S.T.



EM300 10-In-1 Environmental Meter with Air Flow

Measures Air Velocity, Air Flow, Light, Humidity, Wet Bulb, Dew Point, Heat Index, Wind Chill, Air Temperature and Type K Temperature



Features:

- High precision humidity sensor with fast response time
- Low-friction ball bearing mounted wheel design provides high accuracy for airflow measurements
- Dual backlit display automatically reverses digits when taking Light measurements
- Min/Max, data hold & auto power off
- Tripod mount (tripod not included)
- Includes Type K Temperature bead probe, (3) AAA batteries & wrist strap
- 1 year warranty



RoHS CE

Specifications

	Range	Accuracy
Air Temperature	32 to 122°F (0 to 50°C)	±2.5°F/1.2°C
Relative Humidity	10 to 95%RH	±4%RH
Type K Temperature	-58 to 2372°F (-50 to 1300°C)	±(0.4% rdg + 1.8°F/1°C)
Wet Bulb	22.2 to 120°F (-5.4 to 49°C)	
Dew Point	13.5 to 120°F (-25.3 to 49°C)	
Heat Index	32 to 212°F (0 to 100°C)	
Wind Chill	15 to 112°F (-9.4 to 44.2°C)	
Resolution	0.1°F/°C; 0.1%RH	
Light Meter	0 to 1860 Fc (0 to 20,000 Lux)	±5%
Air Velocity	80 to 3837 ft/min (1ft/min)	±3% FS
	0.4 to 20.00m/s (0.1m/s)	
	1.4 to 72.0km/h (0.1km/h)	
	0.9 to 44.7mph (0.1mph)	
	0.8 to 38.8 knots (0.1 knots)	
Air Flow	0.847 to 1,271,300CFM (0.001CFM)	
	0.024 to 36,000CMM (0.001CMM)	
Dimensions/Weight	4.47x 1.8 x 1.2" (120 x 45 x 20mm) / 4.6oz (130g)	

EM400 8-In-1 Environmental Meter with Sound

Measures Sound, Light, Humidity, Wet Bulb, Dew Point, Heat Index, Air Temperature, and Type K Temperature



Features:

- High precision humidity sensor with fast response time
- Meets IEC 61672-2013 class 2 sound level accuracy (±1dB@1kHz)
- Dual backlit display automatically reverses digits when taking Light measurements
- Min/Max, data hold & auto power off
- Tripod mount (Tripod not included)
- Includes Type K Temperature bead probe, wind screen, (3) AAA batteries and wrist strap
- 1 year warranty



RoHS CE

Specifications

Air Temperature	32 to 122°F (0 to 50°C)
Accuracy	±2.5°F/1.2°C
Relative Humidity	10 to 95%RH
Accuracy	±4%RH
Type K Temperature	-58 to 2372°F (-50 to 1300°C)
Accuracy	±(0.4% rdg + 1.8°F/1°C)
Wet Bulb	22.2 to 120°F (-5.4 to 49°C)
Dew Point	13.5 to 120°F (-25.3 to 49°C)
Heat Index	32 to 212°F (0 to 100°C)
Resolution	0.1°F/°C; 0.1%RH
Light Meter	0 to 1860 Fc (0 to 20,000 Lux)
Light Accuracy	±5%
Sound Level	35 to 130dB
Weighting/Response	A weighting/fast response
Sound Accuracy	±1dB@1kHz (Class 2)
Dimensions	7 x 2.2 x 1" (179 x 57 x 24mm)
Weight	5.2oz (146g) w/o battery

Ordering Information:

EM300	10-in-1 Environmental Meter with Air Flow
EM400	8-In-1 Environmental Meter with Sound



Light Meters

BUILDING, MAINTENANCE & ENVIRONMENTAL

LT80 Pocket LED Light Meter

Measures light intensity from white LED light sources up to 40,000 Fc (400,000Lux)



NIST
TRACEABLE
CALIBRATION
AVAILABLE

Features:

- Measures light from fluorescent, metal halide, high-pressure sodium, and incandescent sources
- 9999 count LCD display
- Silicon photodiode sensor and spectral response filter
- Min/Max/Avg and Data Hold
- Includes 2 AAA batteries and pouch case
- 1 year warranty

Specifications

RoHS CE

Range	0 to 40,000Fc; 0 to 400,000 Lux
Resolution	0.01 Fc/0.1 Lux
Accuracy	White LEDs: $\pm 3\%$ reading $\pm 30d$ (0 to 50Fc/0 to 500 Lux) $\pm 3\%$ reading ($>50Fc/500$ Lux) Other Light Sources: For reference only
Dimensions/Weight	5.3 x 1.9 x 0.2" (133 x 48 x 23mm) / 8.8oz (250g)

LT75 Pocket Light Meter Fc/Lux

Measures light from fluorescent, metal halide, high-pressure sodium and incandescent sources

Features:

- Measures up to 40,000Fc (400,000 Lux)
- Cosine angular corrected
- Zero adjustment
- Min/Max/Average function recalls highest, lowest and average readings
- Data Hold freezes the reading on the display
- Low battery indicator
- Auto power off with disable
- Includes 2 AAA batteries and pouch case
- 1 year warranty

Specifications

RoHS CE

Resolution	0.01Fc/0.1Lux
Accuracy	$\pm 3\%$ reading ($>50Fc/500$ Lux)
Spectral Response	CIE Appropriate Light (CIE eye response curve)
Light probe	Silicon light diode and a spectral response filter
Power	(2) AAA batteries
Dimensions / Weight	5.3 x 1.9 x 0.9" (133 x 48 x 23mm) / 8.8oz (250g)

Ordering Information:

LT80	Pocket LED Light Meter
LT80-NIST	LT80 including Certificate of Traceability to N.I.S.T.
LT75	Pocket Light Meter Fc/Lux
LT75-NIST	LT75 including Certificate of Traceability to N.I.S.T.



NEW
PRODUCT

NIST
TRACEABLE
CALIBRATION
AVAILABLE



LT65 Digital Light Meter Fc/Lux

Large 1" digits display Foot Candle or Lux measurements

Features:

- Measures light from fluorescent, metal halide, high-pressure sodium and incandescent sources
- Silicon photodiode sensor (59" cable) with spectral response filter
- Min/Max function, Data Hold and low battery indicator
- Built-in real time clock
- Includes 3 AA batteries and pouch case
- 1 year warranty

Specifications



Range	0 to 40,000Fc; 0 to 400,000 Lux
Resolution	0.01Fc/0.1Lux
Accuracy	±3% reading (<1,000 Fc); > ±4% reading
Light probe	Silicon light diode and a spectral response filter
Dimensions / Weight	6.4 x 2.4 x 1.2" (162 x 62 x 30mm) / 9.2oz (260g)



LT68 Light Meter/Datalogger

Professional Datalogging Light Meter with light intensity measurements ranging from 0 to 40,000Fc or 0 to 400,000Lux

Features:

- Automatically stores up to 16,000 readings or manually store/recall up to 99 readings
- Wide range to 40,000Fc or 400,000Lux
- Cosine and color corrected measurements
- Precision silicon photo diode and spectral response filter
- Peak mode (10 mS) captures highest reading
- Relative mode indicates change in light levels
- Large backlit LCD display with 40-segment bar graph
- Includes light sensor with 3ft (1m) cable and protective cover, USB cable, hard carrying case and 9V battery
- 1 year warranty

Specifications



Accuracy	±5% rdg
Max Resolution	0.01Fc / 0.1Lux
PC Interface	USB
Dimensions / Weight	6.7 x 3.1 x 1.6" (170 x 80 x 40mm) / 13.7oz (390g)



Ordering Information:

LT65	Digital Light Meter Fc/Lux
LT65-NIST	LT65 including Certificate of Traceability to N.I.S.T.
LT68	Light Meter Datalogger
LT68-NIST	LT68 including Certificate of Traceability to N.I.S.T.



Sound Level Meters

SLM400-KIT Sound Level Meter / Calibrator Kit

Test and verify sound levels using sound meter and calibrator

BUILDING, MAINTENANCE & ENVIRONMENTAL



RoHS CE NIST TRACEABLE CALIBRATION AVAILABLE

Features:

Sound Level Meter:

- 35 to 130dB over 2 ranges
- ±1.5db accuracy
- A and C weighting

Sound Level Calibrator:

- Selectable fast/slow response time
- Selectable 94dB and 114dB output at 1kHz
- Fits ½” diameter microphones
- Output Frequency ±4%@1kHz with ±0.5dB accuracy
- Includes Type 2 Sound Level Meter with 9V battery, windscreen, plus Sound Level Calibrator with mini screwdriver and 9V battery, stored in a hard carrying case
- 1 year warranty

SLM400 Sound Level Meter

Meets Type 2 ANSI S1.4-1983 and IEC 60651

Features:

- 35 to 130dB over 2 ranges
- ±1.5db accuracy
- A and C weighting
- Optional model complete with Certificate of Traceability to N.I.S.T.
- Includes Type 2 Sound Level Meter with 9V battery, windscreen, stored in a pouch case
- 1 year warranty

Applications:

Test and verify sound levels for worker safety (OSHA), community noise ordinances, night clubs/concerts, airports, mines, athletic events, construction sites, vehicle testing, wind farms, new product noise reduction & other applications

Specifications for SLM400 & SLM400-KIT

Measurement Ranges	Low: 35 to 100dB; High: 65 to 130dB
Bandwidth	31.5Hz to 8kHz
Resolution	0.1dB
Accuracy	±1.5dB
Standards	Meets Type 2 ANSI S1.4-1983; IEC 60651, EN60651
Frequency Weighting	A and C (selectable)
Response Time	Fast: 125ms / Slow: 1s
Power	9V Battery
Dimensions	9.5.2.7 x 1.9 x 1” (240 x 68 x 25mm)
Weight	6.75oz (210g)



RoHS CE

NIST TRACEABLE CALIBRATION AVAILABLE

Ordering Information:

- SLM400-KIT Sound Level Meter/Calibrator Kit
- SLM400-KIT-NIST SLM400-KIT with Certificate of Traceability to N.I.S.T.
- SLM400 Sound Level Meter
- SLM400-NIST SLM400 with Certificate of Traceability to N.I.S.T.



3550 SoniChek Professional Sound Level Meter

Accurate measurements on large digital and analog backlit display



RoHS CE

Features:

- Measures 30dB to 130dB with an accuracy: ± 1.5 dB
- Designed according to IEC651 (Type 2) and ANSI S1.4 (Type 2) standards
- A/C frequency weighted readings
- Fast/slow response time
- AC/DC analog output
- Analog bargraph for easy visual sound level indication
- Min/Max hold with time stamp
- Tripod mount for long term measurements
- Complete with USB Cable, AC/DC output leads, microphone windscreen, 4 x AA Batteries and case
- 1 year warranty

Applications:

Test and verify sound levels for worker safety (OSHA), community noise ordinances, night clubs/concerts, airports, mines, athletic events, construction sites, vehicle testing, wind farms, new product noise reduction and other applications

TSC-MC1 SoniChek Compact Sound Level Meter

Pocket size is suitable for general purpose sound measurements

Features:

- 40-130dB range with 31.5-8KHz bandwidth
- ± 3.5 dB accuracy, C weighted, Fast response
- The C weighting is ideal for testing sound levels in home theaters, music performances, alarm systems, car audio and other areas requiring a broad frequency response
- Ergonomic design with rubber grips
- Large backlit LCD display
- Min/Max hold and auto power off
- Includes microphone, windscreen, tripod mount and 9V battery
- 3 year warranty

Specifications

RoHS CE

Measurement Range	40 to 130 dB
Accuracy	± 3.5 dB@1kHz, 94dB reference
Resolution	0.1 dB
Frequency Range	31.5Hz to 8kHz
Weighting	C
Response Time	Fast (125ms)
Analog Output	No
Power	9V battery
Dimensions	5.75 x 2 x 1.25" (146 x 51 x 31.8mm)
Weight	4.6oz. (130g)



Ordering Information:

3550	SoniChek Pro Professional Sound Level Meter
3550-NIST	3550 with Certificate of Traceability to N.I.S.T.
TSC-MC1	Sonicheck Compact Sound Level Meter



Moisture Meters

BUILDING, MAINTENANCE & ENVIRONMENTAL

MS100 Pin Moisture Meter

Measure moisture content in wood (5 to 50%) & other building materials (1.5 to 33%)

Features:

- Audible indicator increases as the moisture level gets higher
- Low, Medium, High moisture level icons
- Lock button freezes measurement on screen for hard to see areas
- Built-in calibration check
- Complete with protective cap, replacement pins and 9V battery
- 1 year warranty



Specifications



Pin Measurement Range	Wood: 5.0 to 50.0% Building Material: 1.5 to 33.0%
Resolution	0.1%
Dimensions / Weight	6.63 x 2.63 x 1.25" / 4.4 oz (without battery)

MS120 Pinless Moisture Meter

Pinless measurement for non-invasive testing

Features:

- Measure moisture content in wood and other building materials
- Audible indicator (with disable) increases as the moisture level gets higher
- Low, Medium, High moisture level icons
- Data Hold freezes measurement on screen
- Self-calibration on power up
- Low battery indicator
- Includes 9V battery
- 1 year warranty



Specifications



Pinless Measurement Range	Wood: 0.1 to 99.9% Building Material: 0.1 to 56.5%
Resolution	0.1%
Measurement Depth	1" (25mm)
Icon Levels for Wood	Low: 0.1 to 29.9% Medium: 30.0 to 69.9% High: 70.0 to 99.9%
Icon Levels for Building Materials	Low: 0.1 to 13.9% Medium: 14.0 to 41.9% High: 42.0 to 56.5%
Dimensions	6.7 x 2.8 x 1.3" (170 x 70 x 33mm)
Weight	4.2oz (120g) (without battery)



Ordering Information:

- MS100 Pin Moisture Meter
- MS120 Pinless Moisture Meter



MS150 Pin/Pinless Moisture Meter

Dual function meter utilizes pin or pinless sensors for moisture measurements on wood or building materials

Features:

- Pinless measurement for non-invasive testing (6 to 99.9%)
- Audible indicator increases as the moisture level gets higher
- Low, Medium, High moisture level icons
- Lock button freezes measurement on screen for hard to see areas
- Built-in calibration check
- Complete with protective cap, replacement pins and 9V battery
- 1 year warranty



Specifications



Pin Measurement Range	Wood: 5.0 to 50.0% Building Material: 1.5 to 33.0%
Pinless Measurement Range	Wood/Building Material: 0.1 to 99.9% (relative measurement)
Resolution	0.1%
Dimensions / Weight	6.63 x 2.63 x 1.25" / 4.4 oz (without battery)

MS475 Moisture/Psychrometer/IR Thermometer

For measuring and diagnosing dampness in buildings and building materials

Features:

- Quickly indicate moisture content with pin & pinless moisture measurement
- Built-in Humidity/Temperature probe measures Relative Humidity, Air Temperature, Mixing Ratio and Dew Point
- IR Thermometer with laser pointer, 8:1 distance to target ratio and 0.95 fixed emissivity
- Easy-to-read large backlit dual display
- High/Low Humidity and Moisture alarms
- Min/Max, Data Hold and Auto Power Off
- Includes remote pin moisture probe, 9V battery and carrying case
- 1 year warranty



Specifications



Pinless Moisture / Pin Moisture	6 to 99.9 (Relative) / 0 to 99.9%
Air Temperature / IR Temperature	-4 to 158°F (-20 to 70°C) / -4 to 392°F (-20 to 200°C)
Humidity / Dew Point / Mixing Ratio	0 to 99.9%RH / -22 to 199°F (-30 to 100°C) / 0 to 999GPP (0 to 160k/kg)
Vapor Pressure	0 to 20.0kPa
Condensation Point	calculated
Memory	Manually store/recall 20 readings
Dimensions / Weight	6.9 x 2.8 x 1.5" (174.5 x 71 x 38mm) / 6.3oz (177.7g)



Ordering Information:

- | | |
|---------|---|
| MS150 | Dual Pin/Pinless Moisture Meter |
| MS475 | Moisture, Psychrometer and IR Thermometer |
| MS475-P | Replacement Pin Probe for MS475 |

BR500 High Definition Articulating Videoscope with waterproof (IP67) 6mm camera

Features:

- 2-way articulating probe adjusts 135° in both directions
- 4 adjustable LEDs can illuminate totally darkened areas for inspection
- 3.5" Color TFT LCD monitor with 320 x 240 resolution
- Built-in clock/calendar
- Record video (.ASF) and images (.JPG)
- SWR (Snapshot while recording) function during video recording or playback
- View captured video/images on the display or transfer to your PC using the USB interface or removable SD card (32GB max)
- Store up to 150k images on the included 8GB SD card
- Audio/Video output for connection to a monitor (NTSC or PAL format)
- Auto power off with disable
- Complete with Videoscope, handset with articulating probe, 3.7V rechargeable battery, cleaning kit, 100-240V AC adapter/charger with 4 connectors (US, UK, EU, AUS), SD card, USB and AV cables and heavy duty carrying case
- 1 year warranty



Specifications

Camera	
Diameter	6mm
Field of View	60°
Depth of View	0.8~2.4" (20~60mm)
Resolution	640 x 480 pixels
Articulation	270° (135° left, 135° right)
Display Unit	
Interface	mini USB/AV output
Still Image Format	JPEG (640 x 480)
Video Recording Format	ASF (640 x 480)
Power	3.7V Li-Po Battery or AC Adapter
Dimensions (Main Unit)	8.5 x 4.5 x 1.5" (216 x 114 x 38.1mm)
Weight	0.9lbs (0.4kg)
Dimensions (Articulating Probe)	Handle: 1' x 2.1" (3.48 x 53.3mm)/Cable: 3.3ft (1m)
Weight	1lbs (0.5kg)

Ordering Information:

BR500 High Definition Articulating Videoscope





BR750 High Definition Articulating Videoscope

with joystick controller and waterproof (IP67) 6mm camera



Features:

- Articulating probe with joystick adjusts 135° in all directions
- 4 adjustable LEDs can illuminate totally darkened areas for inspection
- 5" Color TFT LCD monitor with 800 x 480 resolution
- 2X Digital Zoom
- Mirror image mode (vertical, horizontal, or both)
- Built-in clock/calendar
- Record video (.ASF) and images (.JPG)
- SWR (Snapshot while recording) function during video recording or playback
- View captured video/images on the display or transfer to your PC using the USB interface or removable SD card (32GB max)
- Store up to 150k images on the included 8GB SD card
- Photo Compare function displays 2 images on the screen at the same time
- Audio/Video output for connection to a monitor (NTSC or PAL format)
- Auto power off with disable
- Complete with Videoscope, handset with joystick controlled articulating probe, 3.7V rechargeable battery, cleaning kit, 100-240V AC adapter/charger with 4 connectors (US, UK, EU, AUS), SD card, USB and AV cables and heavy duty carrying case
- 1 year warranty



Applications:

Inspect cable connections on the back of installed equipment; Plumbing and Electrical installations behind walls and hard-to-reach areas; HVAC and Heating duct work or in and around the heat exchanger, "A Coil" and evaporator; Automotive sensors and engine parts; Insect or rodent infestation; Anywhere you need to see underneath and behind difficult to move objects



Specifications

Camera	
Diameter	6mm
Field of View	60°
Depth of View	0.8~2.4" (20~60mm)
Resolution	640 x 480 pixels
Articulation	135° in all directions
Display Unit	
Interface	mini USB/AV output
Still Image Format	JPEG (640 x 480)
Video Recording Format	ASF (640 x 480)
Power	3.7V Li-Po Battery or AC Adapter
Dimensions (Main Unit)	7.9 x 5 x 2.3" (201 x 127 x 58.4mm)
Weight	2lbs (0.9kg)
Dimensions (Articulating Probe)	Handle: 7.5 x 2.8 x 6.5" (191 x 71 x 165mm) Cable: 3.3ft (1m)
Weight	1.4lbs (0.64kg)

Ordering Information:

BR750 High Definition Articulating Videoscope

BUILDING, MAINTENANCE & ENVIRONMENTAL

Borescope & Laser Distance

BR300 & BR350 High Definition Videoscopes

Select single or dual waterproof (IP67) 5.5mm camera(s)

Features:

- 5" Color LCD monitor with 1920 x 1080 resolution
- 8 adjustable LEDs with 3 brightness levels
- Built-in auxilliary light illuminates darkened work areas for inspection
- Screen view rotates 180°
- 3X zoom
- Built-in clock/calendar
- View captured video/images on the display or transfer to your PC using the USB interface or removable microSD card (64GB max)
- Store up to 4k images on the included 4GB microSD card
- Audio/Video output for connection to a monitor (NTSC or PAL format)
- Complete with Videoscope, 5.5mm camera probe with 5m cable, 5V Li-Po rechargeable battery, microSD card, USB cable and camera accessories including magnet and hook. BR300 accessory kit includes the addition of a mirror



BR350
Dual Camera



Specifications

	BR300	BR350
Camera	Single (Forward View)	Dual (Forward & Side View)
Diameter	5.5mm	
Field of View	60°	
Depth of View	1.6" (4cm)	
Resolution	1920 x 1080	
Display Unit	5" Color (1920 x 1080)	
Interface	mini USB/AV output	
Power	3.7V Li-Po Battery or AC Adapter	
Dimensions / Weight	8.5x4.5x 1.5" (216 x 114 x 38.1mm)/0.9lbs (0.4kg)	

BR260 High Definition Videoscope

3" Color LCD monitor with 1920 x 1080 resolution

Features:

- 6 adjustable LEDs with 3 brightness levels
- Built-in auxilliary light illuminates darkened work areas for inspection
- Screen view rotates 180°
- 3X zoom
- Built-in clock/calendar
- Record video (.AVI) and images (.JPG)
- View captured video/images on the display or transfer to your PC using the USB interface or removable SD card (64GB max)
- Store up to 4k images on the included 4GB SD card
- Supports 8 languages (English, French, German, Italian, Japanese, Russian, Simplified Chinese, Traditional Chinese)
- Operates on 4 x AA batteries (not included)
- Complete with Videoscope, 5.5mm waterproof camera (IP67) probe with 2m cable, SD card, USB cable and camera accessories (magnet, hook, mirror)



Specifications

Camera	Single (Forward View)
Field of View	60°
Depth of View	1.2 to 4" (3cm to 10cm)
Image Zoom	3X
Video Output Format	NTSC
Dimensions / Weight	9 x 6.7 x 3.1" (230 x 170 x 80mm) / 1.8lbs (0.8kg)



Ordering Information:

BR300 Forward View High Definition Videoscope
 BR350 Forward & Side View High Definition Videoscope
 BR260 High Definition Videoscope

BR300CAM-5M BR300 Replacement Camera, 5M
 BR350CAM-5M BR350 Replacement Camera, 5M
 BR260CAM-2M BR260 Replacement Camera, 2M



LD70 Laser Distance Meter

Designed for one-person operation to measure distances from 2 inches to 230 feet (0.05 to 70m) in seconds with high accuracy and repeatability



Features:

- Measures from 2 inches to 230 feet (0.05 to 70m)
- Addition/Subtraction/Area/Volume measurement
- Indirect measurement using Pythagorean theorem
- Stakeout function for stud or fence layout
- Continuous real-time on-screen angle display
- Memory stores 20 readings
- Selectable front/back reference edge
- Complete with 2 X AAA batteries, case and the 4" x 2" reflective plate for better response and accuracy at longer distance
- 1 year warranty

Specifications



Measurement Range	2 inches to 230 feet (0.05 to 70m)
Measurement Accuracy	±0.19" (±3mm)
Dimensions	7 x 3.7 x 1.5" (178 x 94 x 38mm)
Weight	11oz (312g)

VBDL100 Vibration Datalogger

Records 3-axis g-force and related peaks

Features:

- Measure and record shock and vibration (acceleration)
- ±18g measurement range
- User configurable logging rate
- FFT analysis
- High/Low alarms with LED alert
- Real time clock
- Auto/manual start with flashing LED notification
- Includes 3.6V lithium battery and magnetic / screw mounting pedestal
- 1 year warranty



Specifications



Accuracy	±0.5g
Resolution	0.00625g
Frequency Range	0 to 60Hz
Datalogging (4MB Flash)	168042 Normal records 112028 Motion records per axis
Sampling Rate	Selectable 50ms to 24 hours
Data Format	Time stamped peak acceleration and freefall; Average and Peak Vector sums
PC Interface	USB
Power	3.6V Lithium (Saft 14250 or equivalent)
Dimensions	3.7 x 1.1 x 0.8" (95 x 28 x 21mm)
Weight	6oz (172g)



37-66 Optional Replacement 3.6V Lithium Battery

Ordering Information:

LD70	Laser Distance Meter
VBDL100	Vibration Datalogger
37-66	Replacement 3.6V Lithium Battery

Coating Thickness Testers

CTT42 Coating Thickness Tester

Smart automatic recognition of ferrous and non-ferrous substrates

Features:

- Magnetic induction for ferrous substrates
- Eddy current measurement for non-ferrous substrates
- Easy-to use menu system
- Two measuring modes: Single and Continuous
- Two working modes: Direct and Group
- Two point calibration with Zero adjust
- Memory storage up to 400 readings (80 Direct and 320 Group)
- User-programmable high/low alarms
- Min/Max/Average, one or two point calibration
- Complete with two AAA batteries, USB cable, Calibration Iron, Calibration Aluminum, Precision Standards and hard case
- 1 year warranty

Applications:

Corrosion protection, Paint Shops and Electroplaters, Chemical, Automobile, Shipbuilding and Aircraft industries, Laboratory, Workshop and Field use



Specifications

	Ferrous Probe (magnetic induction)	Non-Ferrous Probe (eddy current)
Measuring Range	0 to 1250µm; 0 to 49mils	0 to 1250µm; 0 to 49mils
Resolution	0.1µm (0.004mils)	0.1µm (0.004mils)
Accuracy	±3%	±3%
Minimum Curvature Radius	1.5mm (59.06mils)	3mm (118.1mils)
Minimum Diameter	7mm (275.6mils)	5mm (196.9mils)
Minimum Thickness	0.5mm (19.69mils)	0.3mm (11.81mils)
Sample Rate	Selectable 1 second to 24 hours	
PC Interface	USB port	
Power	2 AAA batteries	
Dimensions / Weight	4.3 x 2.0 x 1.0" (110 x 50 x 23mm) / 3.9oz (100g)	



Ordering Information:

CTT42 Coating Thickness Tester



CTT47 Coating Thickness Tester with USB

Smart automatic recognition of ferrous and non-ferrous substrates

Features:

- Magnetic induction for ferrous substrates
- Eddy current measurement for non-ferrous substrates
- Easy-to use menu system
- Two working modes: Direct and Group
- Two point calibration with Zero adjust
- Memory storage up to 1500 readings (30 Group readings)
- Data transfer to PC via USB interface
- 8 level adjustable backlight
- Low battery indicator
- Complete with two AAA batteries, USB cable, Calibration Iron, Calibration Aluminum, Precision Standards and hard case
- 1 year warranty



Applications:

Corrosion protection, Paint Shops and Electroplaters, Chemical, Automobile, Shipbuilding and Aircraft industries, Laboratory, Workshop and Field use



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Specifications

	Ferrous	Non-Ferrous
Resolution	0.1µm (0.004mils)	0.1µm (0.004mils)
Accuracy	±2.5%	±2.5%
Minimum Curvature Radius	1.5mm (59.06mils)	3mm (118.1mils)
Minimum Diameter	7mm (275.6mils)	5mm (196.9mils)
Minimum Thickness	0.5mm (19.69mils)	0.3mm (11.81mils)
Sample Rate	Selectable 1 second to 24 hours	
PC Interface	USB port	
Power	2 AAA batteries	
Dimensions / Weight	4.7 x 2.4 x 1.25" (120 x 62 x 32mm) / 6.8oz (175g)	

Ordering Information:

CTT47 Coating Thickness Tester with USB



pH/TDS/Conductivity/Salinity Pens

PH180 Waterproof pH Pen

WQ120 pH/TDS/Conductivity/Salinity Pen

Flat surface pH electrode can measure solids, semi-solids and liquids

Features:

- ATC (Automatic Temperature Control) compensates for temperature changes
- Dual display plus analog bargraph for trends
- Store/recall 25 readings
- Hold function “freezes” the reading on the display
- 1-, 2-, or 3-point calibration
- RENEW warning when probe needs cleaning or replacement
- Auto power off (after 10 minutes) with disable
- Waterproof (IP57)
- Optional replacement electrode
- Includes meter and electrode with protective cap, (4) CR2032 batteries, sample cup with cap & neckstrap
- 1 year warranty, 6 months on electrode

Model PH180

Measures pH and Temperature

Model WQ120:

Combines a flat surface pH electrode with a multirange conductivity cell

Measures pH, TDS, Conductivity, Salinity & Temperature

Adjustable TDS compensation ratio



Specifications

	PH180	Accuracy	WQ120	Accuracy
pH Range	0 to 14pH (0.01pH)	±0.01pH	0 to 14pH (0.01pH)	±0.01pH
Conductivity Range	—	—	0-200µS, 200-2000µS, 2-20mS (0.1µS)	±2% FS
TDS Range	—	—	0-100ppm (mg/L), 100-1000ppm (mg/L), 1-10ppt (g/L) (0.1ppm)	±2% FS
Salinity Range	—	—	0-100ppm, 100-1000ppm, 1-10ppt (0.1ppm)	±2% FS
Temperature Range	32 to 194°F (0 to 90°C)	±1.8°F/1°C	32 to 194°F (0 to 90°C) (0.1°F/°C)	±1.8°F/1°C
TDS Ratio	—	—	0.40 to 1.00 adjustable (0.67 default)	—
Salinity Ratio	—	—	0.40 to 0.60 auto	—
Conductivity ATC/Range	—	—	2% per °C/32 to 140°F (0 to 60°C)	—
Calibration	1-, 2- or 3-point	—	1-, 2- or 3-point	—
Memory	25 readings	—	25 readings	—
Power	(4) CR2032 Batteries	—	(4) CR2032 Batteries	—
Dimensions	7.8 x 1.5 x 1.5" (198 x 38 x 38mm)	—	7.8 x 1.5 x 1.5" (198 x 38 x 38mm)	—
Weight	3.5oz (100g)	—	3.5oz (100g)	—

Ordering Information:

PH180	Waterproof pH Pen
PH185	Replacement Electrode for PH180
WQ120	pH/TDS/Conductivity/Salinity Pen
WQ125	Replacement Electrode for WQ120



CD100 Conductivity/TDS/Salinity Pen

Measures TDS, Conductivity, Salinity and Temperature

Features:

- Multi-range conductivity cell
- ATC (Automatic Temperature Control) compensates for temperature changes
- Dual display for Conductivity, TDS, or Salinity and Temperature plus analog bargraph for trends
- Hold function “freezes” the reading on the display
- RENEW warning when probe needs cleaning or replacement
- Auto power off (after 10 minutes) with disable
- Includes meter and electrode with protective cap, (4) CR2032 batteries, sample cup with cap and neckstrap
- 1 year warranty, 6 months on electrode

Specifications



TDS Range / Accuracy	0-99.9ppm (mg/L), 100-999ppm (mg/L), 1-9.99ppt (g/L) (0.1 ppm) / ±2% FS
Salinity Range / Accuracy	0-99.9ppm, 100-999ppm, 1-9.99ppt (0.1 ppm) / ±2% FS
Temperature Range / Accuracy	32 to 194°F (0 to 90°C) (0.1°F/°C) / ±1.8°F/1°C
TDS Ratio	0.40 to 1.00 adjustable (0.67 default)
Salinity Ratio	0.40 to 0.60 auto
Conductivity ATC Range	32 to 140°F (0 to 60°C)
Dimensions / Weight	7.8 x 1.5 x 1.5" (198 x 38 x 38mm) / 3.3oz (95g)



PH050 Mini pH Electrode

Standard BNC Connector works with any pH meter



Features:

- Rugged, polycarbonate construction
- Glass pH sensing bulb surrounded by protective teeth
- Sealed gel reference solution
- 0 to 14pH range
- 32 to 176°F (0 to 80°C) operating temperature
- Includes 39" (1m) cable with BNC connector and storage solution bottle
- 6 month warranty

Specifications



Isopotential Point	~7.0pH
Material	Polymer housing with glass bulb
Reference Junction	Ceramic
Reference Type	Ag/AgCl (Silver/Silver Chloride)
Cable Length	39" (1m)
Connector	BNC
Dimensions	5 x 0.4" (126 x 10mm)

Ordering Information:

CD100	Conductivity/TDS/Salinity Pen
PH050	Mini pH Electrode

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