

Megger Time Domain Reflectometer

Dual input/output ports, large graphic display enable wide range of comparison tests

- Use on any Cable with at Least Two Insulated Metallic Elements
- Measuring Ranges from 150 to 49,000 Ft.
- Locates Opens, Shorts, Splices, Taps, Presence of Water in the Cable, and More
- Identifies Faults and Other Line Activity Such as Crosstalk, Branches, Load Coils and Transformers, Capacitor Networks
- Low-Voltage Power Lines—Locates Burnouts, Various Splice Conditions, Transformers, Shorts Between Phases, Illegal Taps
- Dual Input/Output Ports Provide Real-Time Good Pair vs. Bad Pair Measurements
- 15-Trace Memory Stored Traces Can Be Downloaded to Printer or PC.

Each Unit Includes:

Test/carrying pouch (EV6420-114), "bed of nails" test-lead set (EV6231-655), carrying strap for pouch (EV6220-611), instruction manual (EV6172-444).



▲ **CFL535E—Advanced features make this TDR ideal for demanding cable-testing applications**

Specifications

Ranges :	150, 300, 600, 1200, 3000, 6000, 12,000, 24,000, 49,000 ft
Accuracy:	0.1% of all ranges
Resolution:	4 in. to 600 ft., 8 in. to 1200 ft., 0.1% of range over 1200 ft.
Velocity Factor:	Variable, 0.03 to 0.999 in steps of 0.001
Output Impedance:	Balanced 120Ω
Display:	Graphic LCD with backlight, 256 x 128 pixels
Operating Environment:	5 to 122°F (-15 to +50°C), 95% RH max. @ 104°F (40°C)
Power:	Six LR6 (AA) batteries, manganese-alkali or nickel-cadmium (not included)
Size/Weight:	9.8 x 7.9 x 4.3" HWD (250 x 200 x 110 mm)/3.3 lb (1.5 kg)

Ordering Information

Order #	Mfg #	Description	Price
MP655535E	CFL535E	General-Purpose Time Domain Reflectometer	
MP6220-669	EV6220-669	Mains Blocking Filter	
MP6231-694	EV6231-694	Miniature-Clip Test Lead Set	

Megger Multi-Function Installation Tester

First installation tester with low-current loop test for surge-sensitive supplies

- Internal Memory Stores Up to 750 Test Results,
- Three Test Voltages and Insulation Resistance Ranges
- Two Continuity and Resistance Ranges.
- Digital Display Has Selectable Backlight Plus Analog Bargraph

Each Unit Includes:

Two-wire test lead set with probes (EV6231-631), test and carry case with strap (EV6420-114/EV6220-611), one red (EV6280-283), one black (EV6280-284) alligator clip, setup and download software on 3.5" disk (EV6220-629), eight AA batteries; power cord (EV6220-654), and instruction manual.



Specifications

Test Voltages:	250V, 500V, 1 kV DC (into 1 mA load)
Insulation Resistance Range:	1 kΩ to 99.9 MΩ, 1 kΩ to 200 MΩ, 1 kΩ to 499 MΩ (relative to test voltage range)
Accuracy:	±2% ± 2 digits up to 99 MΩ
Continuity and Resistance Ranges:	0.01 to 99.9Ω, 100Ω to 99.9 kΩ
Accuracy:	±2% ± 2 digits to 99.9Ω ±5% ± 2 digits to 99.9 kΩ
Low-Current (15 mA) Loop Test:	0.1Ω to 200 kΩ 200 kΩ to 1.99 MΩ
Safety:	IEC1010-1 (1995), EN61010-1 (1995) for CAT III,
Power Supply:	Eight 1.5V AA alkaline cells (included) or 1.5V NiCd rechargeable cells
Size/Weight:	9.65 x 7.87 x 3.74" (245 x 200 x 95 mm) HWD/2.98 lb (1.35 kg)

Ordering Information

Order #	Mfg #	Description	Price
MPCM500	CM500	Multifunction Installation Tester	
Transcat Calibration with Data			CALL
Transcat Calibration without Data			CALL

F

Telecom/Datcom Test Instruments

Bicotest Cable Fault Locator

- Switchable for Different Cable Types, Use for Long- and Short-Range
- Exceptional Accuracy: 0.9% of Range

Replaces Two Units with One

Instead of buying two instruments—one for short range, one for long—use this. Functions from 10 to 3000 meters, on all types of metallic cable: CATV, 75Ω coax, 50Ω coax, datacom and telecom, twisted pair, and LV power distribution. Just select and test. The unit automatically switches to the default pvf and impedance settings, and compensates for cable attenuation. You can locate faults at all distances without a balance control.

Works in Almost Any Environment, Any Location

The backlit display lets you view traces in low lighting, and tactile pushbuttons speed up your work. And this unit works in temperatures down to -20°C, so cold weather's not a problem.

Each Unit Includes: Six AA alkaline batteries, test leads based on model ordered, weatherproof carrying case, and operating manual.

Specifications

Ranges (nominal):	10m, 30m, 100m, 300m, 100m, 3000m at pvf of 0.67
Accuracy/Resolution:	±0.9% of range/1% of range
Propagation Velocity:	Variable velocity factor, 0.2 to 0.99 pvf
Gain:	Automatic, varies across screen
Pulse Characteristics:	Width—7 ns to 2 μs according to range; amplitude—5V nominal, unterminated
Input Limits*:	Withstands direct application of 250V AC RMS, 50/60 Hz
Display:	LCD with backlight; vertical-line cursor
Power:	Six AA alkaline batteries (included)
Safety:	EC Directive 73/23/EEC, as amended by 93/68/EEC; BS EN 41003, 1997
Size/Weight:	9.84 x 3.94 x 2.17" HWD (250 100 x 55 mm)/1.6 lbs (600g)

* Must be used with fused blocking filter test lead for use on cables carrying hazardous live voltages.

Ordering Information

Order #	Mfg #	Description	Price
MP5099E-AC	T810-PWR	Fault Locator with Fused Blocking Filter for 600V	
MP5099E-50	T810-50	Fault Locator with 50 Ohm Test Lead	
MP5099E-75	T810-75	Fault Locator with 75 Ohm Test Lead	
MP5099E-100	T810-100	Fault Locator with 100 Ohm Test Lead	
MPL810/1/PWR	L810/1/PWR	Optional Fused Blocking Filter Test Lead for 600V RMS 50/60 Hz	
MPL810/1/50	L810/1/50	Optional 50 Ohm Test Lead for Coax/Unenergized	
MPL810/1/75	L810/1/75	Optional 75 Ohm Test Lead for Coax	
MPL810/1/100	L810/1/100	Optional 100 Ohm Test Lead for Twisted Pair	



T810 ▲

Select L810 optional leads to add to your testing capabilities.

NEW Megger Hand-held Time Domain Reflectometer / Cable Length Meter

- Full Autoranging for Measuring the Length of Power, Telephony, CATV and LAN Cables, Provides Distance to an Open or Short
- Extra Large, High Resolution BacklitLCD.
- Automatic Output Impedance Control of 25, 50, 75, 100, 125 or 150 Ohms
- User-Friendly Menu on Screen Operation
- Cable Length Calibration Function Internal Library of 39 Standard Cable Types
- 20 Internal Memory Locations for Custom Cable Types
- Tone Generator (Oscillating 910 to 1100 Hz) for Cable Identification and Tracing)
- Line Voltage Detection Safety Protection up to 250 Vrms.
- Dust and Weatherproof to IP 42

The Megger TDR900 is an advanced instrument capable of measuring cable lengths and finding distance to an open or a short using Time Domain Reflectometry. The measurement range spans from 15 feet (5 m) to 10,000 feet (3 km) with a minimum resolution of 20 inches (50 cm).

The TDR900 can be used for any cable consisting of at least two insulated metallic elements, one of which may be the sheath or shield of the cable. The Meter has automatic internal matching networks to allow testing of 25Ω, 50Ω, 75Ω, 100Ω, 125Ω, or 150Ω cables. (These correspond to power, telephony, CATV, and LAN cables.)



Ordering Information

Order #	Mfg #	Description	Price
MPTDR900	TDR900	Handheld TDR and Cable Length Meter	

Megger Time Domain Reflectometer

Versatile enough for both the communications and power industries

- Use on Any Cable with at Least Two Insulated Metallic Elements. Finds Opens, Shorts, Splices, Taps, Presence of Water in the Cable
- Tests 25-, 50-, 75-, 100-Ohm Cables in Six Measuring Ranges from 30 to 9000 Ft.
- Unit Autoranges Around Cursor Position to Give Best View of Fault
- Adjustable Gain Helps Identify Minor Faults Over Entire Cable Length
- Distance-Measurement Units Selectable Between Feet and Meters,

Each Unit Includes: Test/carrying pouch (EV6420-125), "bed of nails" test-lead set (EV6231-653), and instruction manual (EV6172-443).

Specifications

Ranges (@ 0.67 VF):	30, 90, 300, 900, 3000, 9000 ft. (10, 30, 100, 300, 1000, 3000 m)
Accuracy (@ 0.67 VF):	±1% of range, ±1% of range ± pixel for 30- and 90-ft. ranges
Gain:	Adjustable for each range in four user-selectable steps
Velocity Factor:	Variable, 0.01 to 0.99 in steps of 0.01
Output Pulse:	5V peak-to-peak into open circuit
Output Impedance:	25Ω, 50Ω, 75Ω, 100Ω, user selectable
Balance Adjustment:	0 to 120Ω
Display:	LCD with backlight, 128 x 64 pixels
Operating Environment:	5 to 122°F (-15 to +50°C), 95% RH maximum @ 104°F (40°C)
Power:	Six LR6 (AA) batteries, manganese-alkali or nickel-cadmium (not included)
Connections:	Two 4 mm safety terminals, 6-ft. (2 m) test lead
Size/Weight:	9.05 x 4.5 x 1.88" HWD (230 x 115 x 48 mm)/1.32 lb (0.6 kg)

Ordering Information

Order #	Mfg #	Description	Price
MPCFL510E	655510F	Handheld Time Domain Relectometer	
MP6220-669	EV6220-669	Mains Blocking Filter	
MP6231-694	EV6231-694	Miniature-Clip Test Lead Set	

CFL510E—
Lightweight ABS housing clips to a belt or hooks to shoulder straps for convenient testing.



Megger Cable Fault Locating and Verification Tester

- Use for Power, Telecom, Coaxial, and Datacom Cables
- TDR, Volt Meter, Insulation Tester, and Resistance Bridge
- 30 to 9,000 Feet (9 to 3000m)
- CATV, LAN, and Aircraft Wire Testing
- Measure Telecom Network Voltage (TNV)
- Identify Bends, Crimps, Frays, Cuts, Opens, Shorts, Taps, and Splits
- Dust and Waterproof to IP54
- Three-Year Warranty

The Biddle® CFL800E provides the test functions for cable verification and fault locating on twisted pair, quad, and coaxial cables. The "TDR" mode advanced features include pulse matching, pulse reflection amplification, and "Tx Null" and ensure the CFL800E can locate the closest and most elusive faults.

Each Unit Includes: Multipurpose test and carrying case, TDR bed of nails alligator test lead set, Bridge bed of nails alligator test lead and user guide.

Specifications

TDR Ranges:	30, 90, 300, 900, 3,000 & 9,000 feet; (10, 30, 100, 300, 1k, 3k meters)
Accuracy:	±1% of range ±Pixel at 0.67 VF
Voltage Range:	±250 VDC (Accuracy: ±1% ±1 digit)
Velocity Factor:	Variable from 0.30 to 0.99 in steps of 0.01
Bridge Ranges:	0 to 190Ω in steps of 0.1Ω; 190 to 2000Ω in steps of 1Ω
Accuracy:	±0.2% ±X digits (range dependent)
Insulation Range:	0 to 19 MΩ in steps of 0.01 MΩ; 19 to 200 MΩ in steps of 0.1 MΩ
Insulation Accuracy:	±0.2% of reading ±1 digit
Batteries:	6 x AA
Safety:	Meets BS EN 61010-1 (1993) (Optional blocking filter must be used where hazardous voltages exist)
Size (HWD)/Weight:	9.05 x 4.5 x 1.88" (230 H x 115 W x 48 D mm)/1.32 lb. (0.6 kg)

CFL800E



Ordering Information

Order #	Mfg #	Description	Price
MPCFL800E	CFL800E	Hand-Held Cable Fault Locating and Verification Tester	
MP6220-669	EV6220-669	Mains Blocking Filter	

F

Telecom/Datacom Test Instruments

Metrohm Cable Fault Locators

- Time Domain Reflectometer (TDR)
- Locate Faults, Breaks, Shorts, in Metallic Cable
- Measure Length of Spooled Cable

E2520 ▶

These hand-held cable fault locators can be used on most types of cable: telecommunication cables, such as twisted pairs, coax, and LAN networks; and power distribution and armored cables. TDRs are suitable for accurately measuring the length of cable and locating a variety of faults and cable conditions such as shorts, crosses, opens, resistive joints or splices, open sheaths, splices, and load coils.

They work by transmitting a test pulse through a cable, which is reflected when reaching a fault, such as an open or short circuit. The time between the test pulse being transmitted and the reflected pulse being received indicates the distance to the fault. AC blocking filter models are available for use on live cables. Call Transcat for details.



Specifications

Accuracy:	±2% of range
Resolution:	1% of range
Impedance	
22674E	120Ω
22675E	50Ω
22676E	40Ω
Ranges	
22674E	300, 1000, 3000, and 9500 feet and autorange
22675E and 22676E	30, 100, 300, 1000 feet and autorange
Velocity Factor:	0.01 to 0.99 in steps of 0.01; adjustable during test
Size/Weight:	7.5 x 3.5 x 2.1" LWD/1.3 lbs

Each Unit Includes: Six AA alkaline batteries, leads, padded carrying pouch, and instructions.
Approvals: IEC 1010-1.

Ordering Information

Order #	Mfg #	Description	Price
MP22674E	E2520	Fault Locator to 9500 ft	
MP22675E	E2550	Fault Locator to 1000 ft	
MP22676E	E2522	Fault Locator to 1000 ft with AC Blocking Filter	

Metrohm Cable Fault Locators

- For use with Most Metallic Telecom Cable
- Measures up to 26,000 Feet
- Additional 650 Ft and 1300 Ft Ranges
- Accuracy: ±0.1% ±10 nS Relative to Time
- Store Fifteen Readings in Memory
- Download to PC/Printer Via RS-232-C
- Operates from 9V Alkaline or NiCd Batteries
- Lead Length Compensation for Better Accuracy
- Large, High Resolution Black/White Backlit LCD
- Zoom Window for Higher Resolution
- Crosstalk Measurement Facility
- Display Two Traces for Comparison
- 12 x 7 x 2.75" LWD/3.3 pounds

E2770 ▶

Each Unit Includes: 9V NiCd battery, test leads and clips, battery charger, carrying case with window, and instructions.



Ordering Information

Order #	Mfg #	Description	Price
MP22683E	E2770	Cable Fault Locator	
MP22684E	E2772	Cable Fault Locator with Blocking Filter	



Find cable and wire tracers

on pages B62, B116-B118

NEW AEMC Wire Mapper Pro™ LAN & Cable Tester

The only wire-map tester in its class with graphical fault and distance display.

- Handheld Structured Cable and Troubleshooting Tester
- Indicates All Common Wiring Faults Including Split Pairs, Shorts, Opens, Reversed Pairs and Crossed Wires
- Unique Graphical and Digital Display of Fault Information and Length
- Indicates Distances to Opens and Shorts and Identifies Location
- Built-in Tone Generator for Tracing and Locating Cables
- Built-in Service Check Function to Detect Telephone, 10 Base T, 100Mbit+ and Token Ring
- Visual and Audible Warning of Live Network Voltages
- Works with Category 6 cables
- Rugged Design Weighs Less than 12 oz (350g)
- Large High Visibility Blue Electroluminescent Backlit Display
- Complete with Remote Unit and Mini Patch Leads
- Active Remote Identifiers Indicates Pass/Fail at Remote End
- Up to 16 Unique Remote Office Identifiers Available
- Works with TIA 568A/B, USOC and ISDN Wiring Schemes

Ordering Information

Order #	Mfg #	Description	Price
MP2127.82	CA7028	Wire Mapper PRO™ (LAN Cable Tester)	



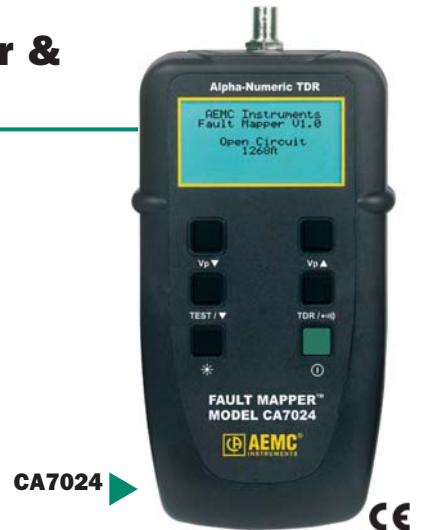
CA7028

NEW AEMC Fault Mapper™ Cable Length Meter & Fault Locator Alphanumeric TDR

- Detects Opens, Shorts and the Distance Between Them
- Measure Cable Length up to 6000 ft (2000m)
- Built-in Library of Most Common Cables and their Vp (Velocity of Propagation)
- Manual Selection of Vp for all Cables Not Found in Library
- VP Setting Displayed along with Length and Cable Type (if in library)
- Automatic Cable Impedance Compensation
- Built-in Tone Generator for Tracing and Locating Cables
- Large High Visibility Blue Electroluminescent Backlit Display

Ordering Information

Order #	Mfg #	Description	Price
MP2127.80	CA7024	Fault Mapper™ (Alphanumeric TDR)	



CA7024

NEW AEMC Fault Mapper™ Pro Telephone/ Coaxial/ Parallel Cable Tester Graphical TDR

- Detects Opens, Shorts, Taps, Faulty Taps, Bridge Taps, Splitters, High Resistance, Wet Cables, Splices and More
- Identifies Impedance Mismatches
- Indicates Cable Faults up to 11,700 ft (3500m)
- Works with Twisted Pair, Parallel and Coaxial Cable
- Selectable Cable Impedance (50Ω, 75Ω, 100Ω)
- Over-Voltage Protection up to 250V
- Adjustable Cursor Assists in Locating Faults and Termination
- Built-in Tone Generator for Tracing and Locating Cables
- Auto-Ranging Scale
- Large High Visibility Blue Electroluminescent Backlit Display

Ordering Information

Order #	Mfg #	Description	Price
MP2127.81	CA7026	Fault Mapper™ (Alphanumeric TDR)	



CA7026

F

Telecom/Datacom Test Instruments