Fault Mapper[™] Cable Length Meter & Fault Locator Alphanumeric TDR Model CA7024



The Fault Mapper[™] Model CA7024 is a handheld, alphanumeric, TDR (Time Domain Reflectometer) Cable Length Meter and Fault Locator, designed to measure the length of electrical and communication cables. It can also indicate the distance to a fault in the cable (open or short), given access to only one end of a two or more conductor cable.

By incorporating fast-edge step TDR technology, the Model CA7024 measures cable length and indicates

the distance to open or short circuit faults, to a range of 6000 ft (2000m), on virtually any type of cable. The Model CA7024 indicates the cable length or fault distance and description, alphanumerically on a 128 x 64 graphical LCD.

An internal library of standard cable types enables accurate measurement without the necessity of entering Velocity of Propagation (Vp) information, and the Model CA7024 automatically compensates for different cable impedances.

CE

The Model CA7024 incorporates an oscillating tone generator that is detectable with a standard tone tracer for use in tracing cables and identification of cable location. The Model CA7024 also displays a "Voltage Detected" warning and sounds an alarm when connected to a cable energized by more than 10V, which prohibits testing.



Features

- Handheld Cable Length Meter and Fault Locator
- Detect opens and shorts and the distance to them from one end of the cable
- Measure cable length up to 6000 ft (2000m) in feet or meters
- Automatic cable impedance compensation
- 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)
- Built-in tone generator for tracing and locating cables
- Large high-visibility blue
 electroluminescent backlit display

Applications

- Determine length of cables on reels, coils or in boxes
- Determine cable runs in wall, conduit and other surfaces
- Detect opens and shorts in cables and the length to them
- Trace cables to identify runs and location



Model CA7024 checking the length of cable on a reel.



Model CA7024 includes meter, soft carrying case, BNC pigtail cable with alligator clips, four x 1.5V AA batteries and user manual



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Specifications

MODEL	CA7024	
MEASUREMENTS		
Range @ Vp = 70%	6000 ft (2000m)	
Resolution	0.1 to 100 ft, then 1 ft (0.1 up to 100m, then 1m)	
Accuracy*	±2% of Reading	
Minimum Cable Length	12 ft (4m)	
Cable Library	Built-in, operator selectable	
Vp (Velocity of Propagation)	Adjustable from 20 to 99%	
Output Pulse	5V (peak to peak) into open circuit; nanosecond rise Step Function	
Output Impedance	Automatic compensation	
Tone Generator	Oscillating tone 810 to 1110Hz	
Voltage Warning	Triggers @ >10Vac/bc	
GENERAL		
Display Resolution	128 x 64 pixel graphical LCD	
Display Backlight	Blue electroluminescent	
Power Source	4 x 1.5V AA Alkaline batteries	
Auto-Off	After 3 minutes	
Languages	English, French, German, Spanish, Portuguese, Italian	
Battery Life	Standby mode >4000 hrs Continuous testing >7.5 hrs	
Storage Temperature	-4° to 158°F (0° to 70°C); 5 to 95% RH non-condensing	
Operating Temperature	32° to 112°F (0° to 40°C); 5 to 95% RH non-condensing	
Dimensions	6.5 x 3.5 x 1.5" (165 x 90 x 37mm)	
Weight	12 oz (350g)	
SAFETY		
Safety Ratings	EN 61010-1, EN 60950, EN 61326-1	
CE Mark	Yes	

*Measurement accuracy of ±2% assumes the instrument setting for Velocity of Propagation (Vp) of the cable under test to be accurately set, and homogeneity of the Velocity of Propagation (Vp) along the cable length.



ORDERING INFORMATION	CATALOG NO.
Fault Mapper [™] Model CA7024 (Alphanumeric TDR)	Cat. #2127.80
Tone Receiver/Cable Tracer Model TR02	Cat. #2127.75



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Tone Receiver/ Cable Tracer Model TRO2



Model TR02

The Tone Receiver/Cable Tracer Model TR02 is a small, handheld tracer that will aid in the identification of tone carrying wires without piercing their insulation. It has a self-contained amplifier and a rugged, moisture resistant mylar cone speaker. When used in conjunction with the tone transmitter function of the Models CA7024, CA7026 or CA7028, wire tracing and locating is quick and efficient.

One button turns the unit on and, while it is depressed activates the receiver. A volume control allows you to set the speaker loudness to a desirable level. An audio output jack facilitates the use of an optional, commercially available ear piece which inhibits the Model TR02's internal speaker. This provides quiet operation in office environments while allowing the operator to hear the signal clearly.

Specifications

MODEL	TR02
GENERAL	
Power Source	9V Alkaline Battery
Dimensions	6.5 x 3.5 x 1.5" (165 x 90 x 37mm)
Weight	12 oz (350g)



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Features

- Compatible with AEMC Models CA7024, CA7026 and CA7028
- Contains a frequency selective hi-gain, hi-impedance amplifier for clear pick-up
- · Rugged, moisture resistant mylar cone speaker
- Convenient operation from a standard 9V battery
- Volume control
- Audio output
- · Pen size, fits into your pocket

Applications

- Locate cable runs
- Detect breaks in cables
- · Find cables in panels



Model TR02 used to find cables in a panel.

Construction



Contact Us

United States & Canada:

Chauvin Arnoux[®], Inc. d.b.a. AEMC[®] Instruments 200 Foxborough Blvd. Foxborough, MA 02035 USA (508) 698-2115 • Fax (508) 698-2118 www.aemc.com

Customer Support – for placing an order, obtaining price & delivery: customerservice@aemc.com

Sales Department – for general sales information: sales@aemc.com

Repair and Calibration Service – for information on repair & calibration, obtaining a user manual: repair@aemc.com

Technical and Product Application Support – for technical and application support: techinfo@aemc.com

Webmaster – for information regarding www.aemc.com: webmaster@aemc.com

South America, Central America, Mexico, Caribbean, Australia & New Zealand:

Chauvin Arnoux[®], Inc. d.b.a. AEMC[®] Instruments 15 Faraday Drive Dover, NH 03820 USA (978) 526-7667 • Fax (978) 526-7605 export@aemc.com www.aemc.com

All other countries:

Chauvin Arnoux SCA 190, rue Championnet 75876 Paris Cedex 18, France 33 1 44 85 45 28 • Fax 33 1 46 27 73 89 info@chauvin-arnoux.com www.chauvin-arnoux.com



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