Cable Scanner



Professional, fast and easy solution for:

 installation of LAN and other cable networks



Example of troubleshooting in the LAN environment

Fast wire map and TDR test done by 1 operator only.

- Measures cable length.
- Finds and locates the most frequent cable and connectivity faults.

Complete test by using remote unit

- Measures cable length.
- Finds type and location of all possible cable and connectivity faults.
- Cable identification up to 28 cables by using simple locators.

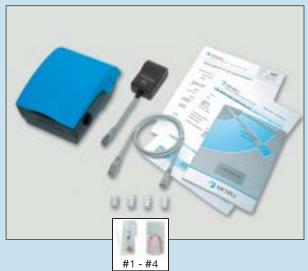
Length and Reflections test

- Accurate length measurement.
- Location and amplitude of cable reflections.

Cable Type

- Pre-setting of different cable types and wiring standards.
- Tracing of cables and wires (with optional Tracer).
- **Talk function** enables full duplex communication between remote operators.

Standard set Order No.: MI 2014



- Instrument
- Cat 5 Patch Cable Metrel PC-2
- Standard Remote #1
- Locators set I (#1 #4), 4 pcs
- Instruction Manual
- Production verification data
- Declaration of warranty
- Declaration of conformity

Technical Specifications Length & Reflections

Measuring principle: Time Domain Reflectometer

Output impedance: 100 Ohm RJ45 output, 50Ohm BNC output

Twisted Pair cable

Distance Range	Resolution	Accuracy
0.0-99.9 m	0.1 m	±(3 % + 5 dig)
100-300 m		±(5 % + 1 dig)
Amplitude Range		
-99 % ÷ +199 %	1 %	±(5 % + 5 dig)

Coax cable

Distance Range	Resolution	Accuracy
0.0-99.9 m	0.1 m	±(3 % + 5 dig)
100-300 m		±(5 %)
Amplitude Range		
-99 % ÷ +199 %	1 %	±(5 % + 5 dig)

Calibration

Calibration on cable length (for improving accuracy of the length	
measurement)	adjustable 2 m-200 m
Propagation velocity rate (NVP)	adjustable 0.50-0.99

Up to three highest reflections (faults) are reported.

Fast Test

RJ45 output only

Measurement of cable length

Detection of

- broken wire on connector or cable, distance to fault
- short between wires, short to shield, distance to fault
- split, crossed, reversed, transposed pairs
- cable termination

Complete Test (with Remote unit)

RJ45 output only

Length of individual pairs: refer to Length specification Detection of:

- broken wire on connector or cable, distance to fault
- short between wires, short to shield, distance to fault
- split, crossed, reversed, transposed pairs

Cable identification #1 - #15

Tracer

114001	
Tone generator frequency	0.80 kHz1.20 kHz
Tone generator amplitude	RJ45 output: 7 V
	BNC: 5 V

Locators

Locatoro		
Locators	#1-#28	

General Data

Display: custom, 85 segments

Operating temperature range: $5 \text{ °C} \div 40 \text{ °C}$ Storage temperature range: $0 \text{ °C} \div 70 \text{ °C}$

Pollution degree: 2
Protection degree: IP44

Power supply main unit:

6 x 1.2 V AA alkaline batteries or

6 x 1.2 NiCd or NiMH AA rechargeable batteries

Charger input (nominal charge voltage): 9 V=

Typical battery life (alkaline batteries): 10 hours

Talk remote unit supply:

9 V alkaline battery

Typical battery life (alkaline battery): 25 hours

Auto Power-off time: 10 min



Optional Accessories



- Talk Remote Unit with headphones set
- Standard remote set (#2 #6), 5 pcs
- Standard remote set (#7 #15), 9 pcs
- Battery charger with NiCd battery pack
- Locator set II (#5 #16), 12 pcs
- Locator set III (#17 #28), 12 pcs
- Tracer
- Soft carrying bag
- Carrying strap

Order No. S 2004 Order No. S 2005 Order No. S 2006 Order No. A 1083 Order No. A 1044 Order No. A 1082 Order No. A 1006 Order No. A 1007