

Cable Scanner



- COAX
- TWISTED PAIRS

Professional, fast and easy solution for:

- installation of LAN and other cable networks
- maintenance, and
- troubleshooting



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, 50 Ohm 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

Tone generator frequency	0.80 kHz..1.20 kHz
Tone generator amplitude	RJ45 output: 7 V BNC: 5 V

Locators

Locators	#1 - #28
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General Data

Display: custom, 85 segments

Operating temperature range: 5 °C ÷ 40 °C

Storage temperature range: 0 °C ÷ 70 °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 1043**
- Order No. A 1044**
- Order No. A 1082**
- Order No. A 1006**
- Order No. A 1007**