

# Cable Scanner



- COAX
- TWISTED PAIRS

*Professional, fast and easy solution for:*

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



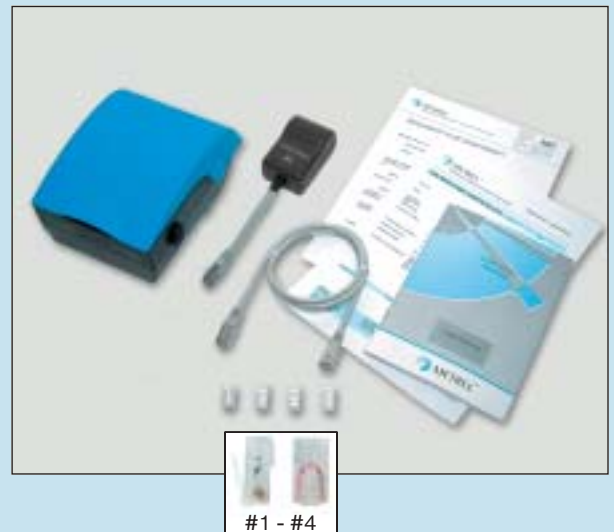
*Example of troubleshooting in the LAN environment*



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

Locators	
Locators	#1-#28

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