

Application Area



The optimum solution for rapid troubleshooting of cable networks – extremely easy to operate, compact and cheap TDR tester.

TDR RI-303TM – a single-channel cable fault locator, designed to determine the nature and location of the cables faults (open, short, sleeve, cable splice, parallel challenge, Pupin coil).

The small size and weight make the RI-303TM especially convenient for working in confined spaces cable wells. High precision characteristics allow to measure near and far zones.

Purpose

TDR-303TM is designed for the following types of measurements on balanced and unbalanced cables:

- Cable length measurement;
- measuring distances to impedance irregularities or faults;
- measurement of the velocity factor of the cable;
- determination the nature of the fault;

Sphere of application

RI-303TM is intended to measure on cables of the following types:

- signal and control cables;
- power cables;
- aerial cable lines;
- computer networks ;
- TV and radio cable lines;

Specifications and Characteristics

- **Implemented measurement methods:** TDR;
- **Display:** 3.8" Monochrome (320x240 px);
- **Measurement range** (for $V/2=99.9 \text{ m}/\mu\text{s}$): 2 m ... 4.8 km;
- **Pulse Width:** 10 ns ... 10 μs ;
- **Pulse Amplitude:** 18 V (open circuit);
- **Distance measurement absolute error:** 0.125 m
- **Effective sampling rate:** 800 MHz;
- **Receiver bandwidth:** 200 MHz;
- **Input impedance:** 30 ... 400 Ohm;
- **Attenuation overlap:** 80 dB;
- **Velocity Factor adjust range, $v/2$:** 50.0 ... 150.0 m/ μs ;
- **Non-volatile internal memory:** 1 waveform;
- **Input built-in protection from residual voltage on the line;**
- **Connectors:** TDR (BNC);
- **Power:** 4 x AA;
- **Continuous running from the batteries:** 8 hours;
- **Overall dimensions:** 230 mm * 130 mm * 50 mm;
- **Weight:** 0.55 kg;
- **Working conditions:**
 - operating temperature range from -20 to 40 °C;
 - relative humidity 98%, at 25 °C;
 - transportation and storage conditions from -50 to 50 °C.

Delivery Contents

	Quantity
Time Domain Reflectometer RI-303TM	1 item
Battery, type AA	4 item
Battery charger	1 item
Connecting cable 1.5 m	1 item
Strap	1 item
User Manual	1 item