

CABLE FAULT LOCATOR TDR-TA4.7

Application

- High resolution cable fault location with various methods (TDR, ARM, ICM, DECAy)
- Fault location range 1 to 256 kilometers
- Cable length measurement and cable integrity tests
- Measurement of the distance to the heterogeneity of the cable impedance or low-resistance fault, using TDR method
- Measurement of the distance to the high-resistance fault, using the Arc Reflection Method (ARM) in complex with the high-voltage pulse generator (HVPg)
- Measurement of the distance to the high-resistance fault, using the Impulse Current Method (ICM) or Decay Method in complex with the high-voltage pulse generator (HVPg)



SPECIFICATIONS

TDR-TA4.7

Implemented measurement methods	TDR, ARM, ICM, DECAy
Display	color 10.4" TFT 640 x 480 pixels, LED-backlight 400 cd/m ²
Distance measurement range	PF=1.500: 1 m ... 256 km
Pulse Width	10 ns ... 100 us
Pulse Amplitude	18 V, 86 V (on open circuit)
Distance measurement relative error	0.01% ... 0.2% (depending of sub-range)
Distance measurement absolute error	0.125 m (on sub-ranges <= 1 km) ... 32 m (on 256 km sub-range)
Effective sampling rate	800 MHz
Input impedance	Input impedance
Attenuation overlap	73 dB
Asynchronous noise suppression	averaging 1 ... 64 times
Propagation Factor(PF) range	PF=1.000 ... 3.000
Synchronization ARM	external (TRIG), internal (delay 0 ... 50 ms, step 0.2 ms)
Synchronization ICM, DECAy	threshold level (-165 V ... +165 V, step 2 V)
Non-volatile internal memory	300 waveforms, 500 PF values
Data exchange	via USB-Flash
File types	waveform (*.tdr, up to 8000 px), screenshot (*.jpg)
User interface language	English
Connectors	TDR (BNC), TRIG (BNC), WAVE (BNC), USB-A
Power	AC 12 V, built-in Li-Ion battery (7,2 ± 0,7)V 7,0A
Continuous running from the battery	at least 6 hours. Continuous running via AC adapter is not limited
Overall dimensions	363 mm * 295 mm * 170 mm
Weight	3.7 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

BASIC SET

Cable Fault Locator
AC Adapter 12 V
Connecting cables
CD-ROM with software
User manual in English
Carrying bags

OPTIONAL ACCESSORIES

Transitional Device
Arc Discharge Generator GI-TA