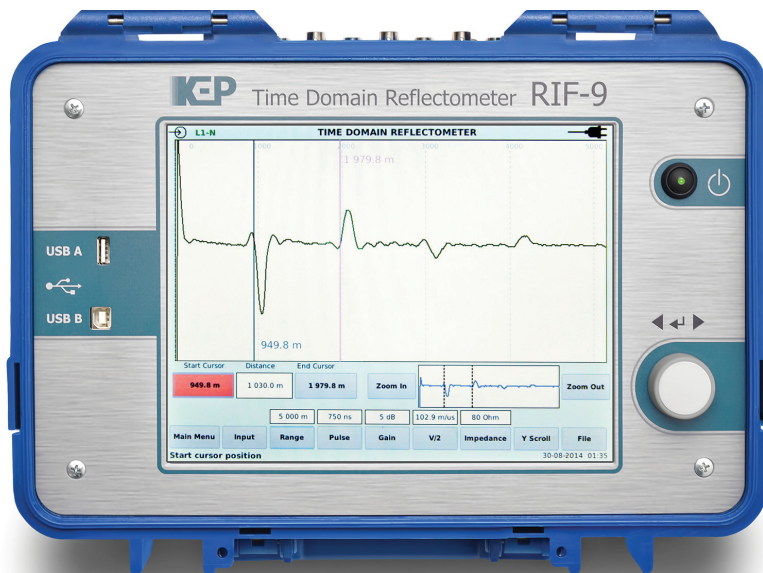


Digital Impulse Reflectometer

RIF-9



MAIN FEATURES:

- Determining the distance to a fault or discontinuity in symmetric and asymmetric cables using a location (time domain reflection) method
- Measuring the length of a cable (including those wound on a drum) or distance to a fault or a short circuit
- Storing and processing the results of measurements both internally or using a supplied PC software
- As part of a Cable Test Van, determining the distance to a fault or discontinuity in cables with length of up to 100 km for all possible fault types without the need of preliminary full cable sheath burning

> CABLE FAULT LOCATION > Digital Impulse Reflectometer



high voltage
testing equipment



▶ Application

Battery powered Digital Impulse Reflectometer (TDR) RIF-9 designed for determining the distance to a fault in communication and power cables.

▶ Description

- RIF-9 provides you with 10.4-inch bright high-contrast TFT display with touchscreen. The 800*600 pixels resolution makes the picture sharp. The touchscreen allows an operator navigate through the menu fast and easy. An alternative way of navigation is included. It is provided with a control knob.
- RIF-9 integrates a multiple ways of fault prelocation. It can be used either as a standalone device in TDR mode or in a conjunction with HV-module, working in arc reflection (ARC), impulse current (ICE) and decay modes. A high-capacity internal battery allows working up to 8 hours.
- RIF-9 has both RS-485 and USB interfaces. The package content includes software for PC (optional), which allows working with saved reflectograms. The firmware is easily updated through USB interface by inserting a flash drive.

Technical specifications ◀

Parameter	Value
Distance measurement ranges, m @ v/2 = 100 m/μs	60; 120; 250; 500; 1000; 2000; 5000; 10000; 20000; 50000; 120000
Resolution:	
– 0.5 @ v/2	100 m/μs
– 0.4 @ v/2	80 m/μs
Sampling rate, MHz	200
Gain, dB	-33 – 104
Output impedance (10 Ω steps), Ω	10 – 500
Propagation velocity (v/2), m/μs	50.0 – 150.0
Averaging reflectograms number, max.	64
Time domain accuracy, % of FS	± 0.2
Pulse amplitude, V	45
Propagation velocity (V/2) resolution	0.1 m/us
Pulse width, ns	10 – 100 000
Operation modes	TDR; ARC; ICE; Decay
Control	Touchscreen and control knob
Connectivity	RS-485, USB
Internal data storage	4 Gb (not less than 1000 reflectograms with data)
Display	10.4", 800x600 TFT, touch-sensitive
Internal battery	12 V (8 hours of operating when fully charged)
External power adaptor	Input 230V 50 Hz Output 24 V DC
Power consumption, max.	36 W
Dimensions, mm	366 × 271 × 178
Net weight (with internal battery), kg	8.0 kg

KEP reserves right to make changes into specifications.

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