

REFLECTOMETER R-TDR ICE

Portable cable fault pre-locating equipment.

Highlights

- ▶ Easy operation.
- ▶ ICE coupler input.
- ▶ Two measuring inputs for wire comparison.
- ▶ High resolution in both short and long distances.
- ▶ Hermetic and sturdy casing for use in adverse field conditions.

Descripción

R-TDR is a powerful and compact reflectometer specially designed to locate low-voltage cable faults. Its multiple configurations and functions ensure high-accuracy measurements, even at short distance (< 5 m) and on live low voltage cables (max 400 VAC). A clearly designed LCD display constantly indicates all settings, avoiding confusing information.

The **REFLEX R-TDR ICE** reflectometer uses the Time Domain Reflection Method, sending low voltage electric pulses along the conductor with pulse width of nano to microseconds. Each change in impedance produces partial reflection of the pulse back to the equipment. The reflectometer calculates the distance using the time between the transmitted pulse and reflection, and the information obtained is later displayed graphically on the screen. In this way, cable ends, short circuits, interrupts, joints and cross-talks can be identified.

In ICE mode (Impulse Current Method) it allows the pre-location of high resistance faults and intermittent flash faults. Through the use of a current pulse generator of the GIC family, a discharge is triggered on the fault present in the conductor and results in a phenomenon of multiple reflections that are repeated as long as the voltage is sufficient to continue priming the fault. These reflections are captured by the inductive coupler and displayed on the screen, the time elapsed between reflections is proportional to the distance between the generator and the fault.

Technical specifications

- Adjustable balance.
- Adjustable attenuation.
- Self-adjusting output pulse depending on range.
- Comparison of reflectograms with simultaneous display on the screen.
- Large illuminated LCD display.
- Two measuring inputs for measurement comparisons.
- Single measurement, constant measurement, estimation of propagation speed.
- Voltage-protected measuring inputs up to 600V for detecting faults on live cables.
- Programmable temporized Auto-power-off.
- Over 10 hours of continuous operation.
- Robust, hermetic housing for use in rough field conditions.



MADE IN ARGENTINA

TECHNICAL SPECIFICATIONS

R-TDR

Max range	20.000mts @ VP/2 80 m/mseg.
outputs	2 (protegidas hasta 600 Vca)
Measurement	Directa en pantalla, 2 cursores
Pulse widths	70 nseg, 100 nseg, 200 nseg, 400 nseg, 1 µseg y 5 µseg
Resolution	0,50 mts @ vp/2 - 80m/µseg
Display	LCD 320 x 240, backlight
Pulse amplitude	10 Vp. sobre 50 ohms.

ICE

Resolution	1 mts@vp2=80mts/ µseg
Sampling frequency	80 Mhz
Methods	ICE
VP/2	Adjustable between 50 m/µseg-150m/µseg
Zoom	Yes
Connectors	BNC

R-TDR/ICE

Power supply	Internal battery 12V/2,3 Ah 110-240Vca ± 10% -50/60 Hz
Operating capacity	> 10 hours
Auto-power-off	Programmable: 5, 10 o 15 min.
Dimensions mm. (height, width, depth)	130 x 280 x 250
Weight (approx.)	3,8 kg.
Operating temperature	-10°C / +50°C

Delivery kit:

- 100-240 VAC battery charger.
- Set of cables with 2 measuring leads.
- BNC - BNC cable
- Operation manual.
- Transportation bag

Illustrative photos. Technical data subject to change without notice.

