

RLF C4-8-16-32

Compact system for testing and fault location in medium and low voltage cables.

Highlights

- Compact and robust.
- Modular and configurable.
- 4 high voltage output ranges.
- Suitable for mounting in medium-small utility vehicles.
- Safe and rapid fault location.
- Includes various fault pre-location methods (TDR, IF-TDR, ICE, ARM, M-ARM).
- High energy peak for precise and effective pinpointing.



MADE IN ARGENTINA

Description

RLF C4-8-16-32 is a compact system for testing and locating faults in low and medium voltage cables. The **TS80R** reflectometer features the most advanced fault pre-location methods: TDR (Time Domain Reflection), IF-TDR, ICE (Impulse Current), ARM (Arc Reflection Method), M-ARM and DECAY (Voltage Decay). With its energy peak of 2100J across four ranges—4, 8, 16, and 32 kV (1100J - 3100J optional)—it provides the necessary power to accurately detect cable faults using the acoustic method with the **RPF A/I** fault pinpointing device. The powerful high-voltage source allows testing at any voltage level between 0 and 32 kV.

Typical configuration:

- Control module
- Reflectometer TS 80R
- Tone generator RGT 100R
- Range switching switch (4, 8, 16, or 32 kV)
- Function switching switch (Filter, Direct, and Signal)

Cable reels with 50 meters or a side reel with 20 meters can be chosen:

- Output cable for high voltage (AT)
- Safety ground cable
- Operational ground cable
- Power supply cable



Complementary Equipment

FAULT LOCATOR - RPF A/I

Acoustic shock wave and audio frequency receiver. It is used for the precise pinpointing of faults in cables and installations, as well as for tracing the path of underground cable layouts.

EARTH FAULT LOCATOR - RMA

Identifies the exact location of screen-to-ground leaks by sending a high-voltage signal that radiates at the fault site.



TECHNICAL SPECIFICATION	
TS 80R	
Distance Range	128m to 250 Km @ 80m / μ seg
Pulse Width	100ns to 6 μ s
Pulse Amplitude	20Vp a 100Vp
Resolution	ICE 1 mts@vp/2 – 80mts/ μ seg TDR 0,5 mts@vp/2 – 80mts/ μ seg
Sampling Frequency	80 Mhz
Methods	TDR, IF-TDR, ICE, ARM, M-ARM y DECAY
Output impedance	50 ohm
Measurement	Movable On-Screen Cursors Automatic Cursor Positioning
VP/2	Adjustable between 50m/ μ s and 150m/ μ s
Zoom	Si
Memory	>1000 reflectograms
Connections	USB2.0 – BNC
Display	10.4" TFT High-Contrast Color Display, 800 x 600 Pixels, LED Backlight
RGT 100R	
Selectable Frequencies	1 kHz – 1,48 – 480 Hz
Output Power	Adjustable from 0 to 100 VA
Frequency Range	0,48 – 1,48 – 10Hz
Output Impedance Ω	1 – 2 – 5 10 – 30 – 100 300 – 100
Output Mode	Rectangular Continuous
Measurement	LCD graphical display
RFI C4-8-16-32	
High-Voltage Testing (kVcc)	0 – 4, 0 – 8, 0 – 16 y 0 – 32
Short-Circuit Current per Range	@ 4kVcc – 640mA @ 8kVcc – 320mA @ 16kVcc – 180mA @ 32kVcc – 90mA
Maximum Energy per Range	@ 4kVcc – 2100 J @ 8kVcc – 2100 J @ 16kVcc – 2100 J @ 32kVcc – 2100 J
Discharge Frequency	4 – 6 seg. Manual
Function Switch	Yes / Manual (ARM filter, power, and signal)
Range Switch	SI/M (4,8,16,32kV)
Grounding	Automatic
Filters / Couplers	ARM – ICE
Phase Switch	Manual (R, S, T, and Earth)
High-Voltage Cable	3 x 50 meters, shielded, 6 mm ²
Power Cable	50 mts. 3 x 2,5 mm ²
Ground / Return	50 meters 10 mm ² / 50 meters 10 mm ² armored
Dimensions mm (Height, Width, Depth)	Control module 1355 x 635 x 735 Cable reels 1900 x 830 x 600
Total Weight (Approximate)	235 kg
Power Supply	220 Vca/50Hz (110 Vca/60hz optional)