

Three-phase RLF C4-8-16-32

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

Highlights

- Compact, robust, modular, and configurable.
- Suitable for mounting in a medium utility vehicle.
- Safe and quick fault location.
- Includes various pre-location methods (TDR, IF-TDR, ICE, ARM, M-ARM).
- Single-phase or three-phase high voltage output.
- Four high voltage output ranges.
- High energy peak for precise and effective pinpointing.



MADE IN ARGENTINA

Description

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



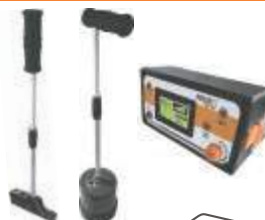
Typical Configuration:

- Command module
- TS 80R reflectometer
- RGT 100R tone generator
- Range selection switch (4, 8, 16, or 32 kV)
- Function selection switch (Filter, Direct, and Signal)
- Phase selector switch (R, S, T, and Ground)
- High voltage output cable
- Operational/safety ground cable
- Power cable

Complementary Equipment

FAULT PINPOINTING DEVICE RPFA/I

Acoustic shockwave and audio frequency receiver. It is used for precise fault pinpointing in cables and installations, as well as for tracking the path of underground cable runs.



TECHNICAL SPECIFICATIONS

TS 80	
Distance range	128m to 250 Km @ 80 m/μsec
Pulse width	100ns to 6μs
Pulse amplitude	20Vp to 100Vp
Resolution	ICE 1 mts@vp2=80mts/μ seg TDR 0,5 mts@vp2=80mts/μ seg
Operating frequency	80 Mhz
Methods	TDR, IF-TDR, ICE, ARM, M-ARM and DECAY
Output impedance	50 ohm
Measurement	Movable cursor display Automatic cursor auto-positioning
VP/2	Adjustable between 50 m/μsec-150m/μsec
Zoom	Yes
Memory	> 1000 reflectograms
Connections	USB2.0 - BNC
Display	10.4" TFT high contrast color, 800 x 600 pixels, LED backlight
RGT 100	
Selectable frequencies	10 kHz - 1.48 kHz - 480 Hz
Output power	adjustable from 0 to 100 VA
Frequency range	0.48 - 1.48 - 10 kHz
Output impedance Ω	1 - 2 - 5 10 - 30 - 100 300 - 1000
Signal	Pulsed Continuous
Measurement	LCD graphic display
RLF C4-8-16-32 Triphasic	
High voltage test	0 - 4, / 0 - 8, / 0 - 16k / 0 - 32V DC @ 4kVcc - 640mA @ 8kVcc - 320 mA @ 16kVcc - 180 mA @ 32kVcc - 90 mA
Short circuit current	@ 4kVcc - 2100 J @ 8kVcc - 2100 J @ 16kVcc - 2100 J @ 32kVcc - 2100 J
Peak power per scope	@ 4kVcc - 2100 J @ 8kVcc - 2100 J @ 16kVcc - 2100 J @ 32kVcc - 2100 J
Discharge frequency	4 - 6 sec. Manual
Switch functions Key	Yes, Manual (Power, Filter, Signal)
Switch range Key	Yes, Manual (4kV, 8kV, 16kV y 32kV)
Grounding	Automatic
Filter	ARM - ICE
Output	Triphasic
Switch phase key	Yes, Manual (R, S, T AND Earth)
AT Output cable.	3 x 50 m, high-voltage shielded cable - 6mm2
Safety ground cable and Operation ground cable.	50m, 10mm2 / 50m, 10 mm2 - Indented
Power cord.	50m, 3 x 2,5 mm2
Dimensions mm. (height, width, depth)	Command module: 1355 x 635 x 900 Reel container: 1900 x 830 x 600
Weight (approximate)	290 kg
Power supply	220 VAC/50Hz (110 VAC/60hz optional)
Operating temperature	-10 °C ... +50 °C