

FAULT LOCATOR - RPF A/I

Receiver of acoustic shock waves and audio frequencies. It is used for the precise localization of faults in cables and installations, as well as for tracing the path of underground cable installations.

Highlights

- **Lightweight receiver with transport straps.**
- **Excellent acoustic and magnetic reception.**
- **Switchable filters against environmental noise.**
- **Graphical indication of the magnetic field (allows localization of the cable path).**
- **Digital indication of the distance to the fault.**
- **LCD display for clear reading in low ambient light conditions.**
- **Auto power-off due to low battery.**
- **Auto power-off after 25 minutes of inactivity.**
- **Durable construction for field operation.**



MADE IN ARGENTINA

Description

The RPF A/I receiver is a directional acoustic listening device for pinpointing flash-type faults, and in the same unit, it serves as an electromagnetic audio-frequency receiver for tracing. Its ease of use allows users to accurately pinpoint faults when used in conjunction with an impulse shock wave generator. In the audio frequency receiver mode, it enables tracing of underground cables and pinpointing of low-impedance faults when used with a tone generator.

Working Method

Acoustic localization is carried out by measuring the sound produced by the discharge at the fault location. The RPF A/I receiver features a switchable filter to optimize acoustic reception. This filter's band width is designed to minimize ambient noise (such as wind, vehicles, etc.), and it also includes a magnetic and acoustic sensor housed in the capturing bell, responsible for sending received signals to the receiver.

The RPF A/I receiver can identify the location of the buried cable due to the magnetic field generated by the shock wave impulse generator. This impulse is reflected on the RPF A/I receiver's display by indicating the alignment of both acoustic and magnetic sensors, allowing the operator to position themselves along the cable trace, thereby increasing pinpoint accuracy.

Trace determination is based on recognizing and evaluating the low-frequency electromagnetic field that propagates along the metallic conductor. The field is maintained by a tone generator that injects the signal into the conductor, which is inductively captured by the coil mounted at the end of the telescopic pole. The induced signal is selectively amplified, and its relative amplitude is displayed on the receiver's screen and transmitted to the headphones for acoustic recognition.

Scope of Supply

Receptor	Headphones
Inductive sensor	Transport bag
Acoustic sensor	Battery charger
Headphones	Operation manual

TECHNICAL SPECIFICATION

RPF A/I

Filter	Analog
Gain	> 90 dB (Acoustic A) > 90 dB (Acoustic I)
Measurement	LCD Graphic Display
Headphone output	6.3mm Plug
Auto-off	25 minutes
Dimensions mm (height, width, depth)	100 x 205 x 95 mm
Weight	850 g
Power supply	Gel Battery - 12V 0.8A/h
Operating time	> 10 hours of intermittent use
Operating temperature	-10°C / +50°C

GEOPHONE (A)

Filter	100Hz - 2KHz 100Hz - 600Hz 350Hz - 1.5Hz 200Hz - 750Hz
Weight	2 Kg

INDUCTIVE SENSOR (I)

Frequency range	480Hz - 148Hz - 10kHz
Weight	800 Gr

Complementary Equipment

tone generator RGT 100

Audio frequency generator for tracing and detecting underground cables and pinpointing faults.

GIC 4-8-16 GIC 8-16-32

Portable impulse shock wave generator.

