

FAULT PIN-POINTER - RPF A/I

It is a receiver of acoustic shock waves and audio frequencies. It is used to pin-point cable faults in power cables and installations and to trace the route of underground cables.

Highlights

- ▶ Lightweight receiver with carrying straps.
- ▶ Excellent acoustic and magnetic reception.
- ▶ Switchable filters against environmental noise.
- ▶ Bar graph indication of magnetic field strength (enables accurate tracing of cable route).
- ▶ Digital display of distance with respect to fault.
- ▶ LCD display provides perfect visibility in low-light conditions.
- ▶ Battery status indicator.
- ▶ Auto power off after 25 min. of inactivity
- ▶ Heavy duty construction for continuous operation.



MADE IN ARGENTINA

Description

The RPF A/I receiver is a directional acoustic device for the pin-pointing of flash-over fault and on the same unit a receiver of electromagnetic frequencies for tracking traces. Its simplicity of operation allows users to accurately pin-point faults when used in conjunction with a surge generator like **GIC** model. In the audio frequency receiver mode allows to know the trace of underground cables and pin-pointing low impedance faults, when used in conjunction with a audio frequency generator, like **RGT 100** model.

Working method

The acoustic pin-pointing is performed by measuring the sound produced by the discharge at the location of the fault. The **RPF A/I** receiver has a switchable filter is built-in to optimize the acoustic reception, the bandwidth of this filter is designed to minimize ambient noise (wind, vehicles, etc.) as well as the magnetic and acoustic sensors housed in the hood captor, responsible for sending received signals to the receiver.

The **RPF A/I** receiver has the function of being able to identify the location of the buried cable thanks to the magnetic field produced by the pulse generated for surge generator, this impulse is view in the display of the receiver **RPF A/I** through a Indication of coincidence of both sensors, acoustic and magnetic, which allows at the operator to be able to position itself on the trace of the cable tested, providing a greater accuracy in the pin-pointing of the same.

The determination of traces is based on the recognition and evaluation of the electromagnetic field of audio frequency that propagates along metallic conductor. The field is supported by a tone generator which injects the signal into the conductor and is inductively picked up by the coil mounted at the end of the telescopic stick. The induced signal is selectively amplified and its relative amplitude is indicated on the display of the receiver and in turn led to the earphones for acoustic recognition.

Delivery kit:

- Receiver
- Inductive sensor
- Acoustic sensor
- Headphones
- Kit transport case
- Battery charger
- Operation manual

TECHNICAL SPECIFICATIONS	
RPF A/I	
Filter	Anlogic
Measuring indicators	LCD graphic display
Gain	= 85 dB (A - acoustic) = 90 dB (I- inductive)
Headset output	Plug. 6,3 mm
Dimensions mm. (height, width, depth)	100 x 205 x 95
Weight	850 gr.
Power supply	Gel battery 12V 0.8A/h (inside)
Operating period	> 10 hours intermittent operation
Operating temperature	-10°C / +50°C
GEPHONE A	
Filter	100Hz-2KHz 100Hz - 600Hz 350Hz-1.5kHz 200Hz-750Hz
Weight	2 Kg.
INDUCTIVE SENSOR I	
Frequency range	480Hz - 1480Hz - 10kHz
Weight	850 gr.

Additional equipment

AUDIO FREQUENCY GENERATOR RGT 100

Audio frequency generator to locate and trace the route of underground cables and to pin-point cable faults.



- GIC 2-4-8
- GIC 8-16-32

Portable high voltage impulse generator.

