

GROUND FAULT LOCATOR - RMA

This equipment is used to pinpoint ground faults using the voltage gradient principle. It is primarily used for faults in the sheath and buried low voltage cables.

Highlights

- Lightweight and compact design
- Two sets of test probes
- Battery-powered autonomous equipment
- High sensitivity

Description:

The **REFLEX RMA** ground fault pinpointing device is designed based on the voltage gradient principle. It is engineered to precisely locate ground faults in any conductor or shield installed below the surface. With the RMA ground fault pinpointing device, it is possible to efficiently and accurately identify defects or perforations in insulation, torn conductors, or other specific faults in buried cables with leakage.

Principle of Operation:

The transmitter emits pulses between the conductor under test and ground. This creates a DC current flow in the conductor under test and, through the fault to the ground, the return occurs through the ground to the transmitter's ground connection. The current flow through the ground is measured using the frame A, which probes the soil along the trace of the buried conductor under test. Since the current flows in one direction, it allows us to determine its trajectory between the transmitter and the return path. The receiver instrument detects the pulses generated by the transmitter, and each pulse will cause the instrument to deflect. As we approach the fault, the receiver's indication will decrease, maintaining the deflection in one direction. When the frame A probes are directly over the fault, the receiver's indication will nullify. If we move past the fault, the receiver's indication will increase in the opposite direction as we move away.

Transmitter:

The transmitter is powered by a rechargeable gel battery, freeing it from an external power source and making it ideal for field work. The transmitter applies voltage to the cable under test in pulses every 3.5 seconds, which can be perceived through the transmitter's visual and audible indicators. Alternatively, pulses can be injected into the faulty conductor using a REFLEX brand shock wave generator from GIC.

Receiver – Frame A:

The receiver indicates the polarity or direction of the circulating current and its intensity using its zero-center instrument. This instrument features backlighting for use in low-light environments. It includes sensitivity adjustment for optimal reception and battery level indication.



Scope of Supply:

- RMA TR Transmitter
- RMA A Receiver
- Cable for External Power Supply/Charging
- Probes for Soft Soils
- Ground Rod
- User Manual

MADE IN ARGENTINA

TECHNICAL SPECIFICATION

RMA TR – Transmitter

Output Voltage	5000V
Discharge Frequency	3,5 sec.
Dimensions mm. (height, width, depth)	220 x 350 x 180 mm
Weight	3,9 kg
Power Supply / Charging	100 – 240 VCA 50/60HZ 12 Vcc
Internal Power Supply	12 Vcc – GEL
Battery Operation	20 Hs.
Operating Temperature	-10°C / +50°C

RMAA - Receiver (Frame A)

Power Supply	9Vcc - Battery
Indication	Analog instrument, with zero in the center
Sensitivity Adjustment	YES
Dimensions mm. (height, width, depth)	130 x 115 x 55 mm
Battery Operation	190 Hs.
Operating Temperature	-10°C / +50°C