

POWER CABLE IDENTIFIER RIC 100

This equipment is used for the identification of a specific cable within a bundle of cables in an open-ditch using a simple and unambiguous procedure.

Highlights

- Easy operation.
- Safe operation.
- Sturdy unit.
- Reduced dimensions.
- Lightweight and compact design.

Description

The RIC 100 TP transmitter generates unidirectional pulses of high amplitude, with selectable repetition and duration. These pulses are injected into the cable under identification, creating a magnetic field of specific intensity and direction. Adjacent cables absorb some of the emitted energy through inductive or/ and capacitive couplings, sustaining a magnetic field of opposite direction and significantly lower intensity than the main field.

The R-EC pickup coil is used to encircle the various cables located in the trench. The magnetic field generated by the current flowing through the cable induces a voltage in the coil of the pickup coil, with amplitude and polarity depending on the intensity and direction of the sensed current.

The RIC 100-TX receiver, connected to the pickup coil, amplifies and processes the induced signal, displaying the information through a light indicator. If the selected cable is the main one, the indicator lights up in green, clearly indicating the correct cable. However, if the coil encircles a neighboring cable, the indicator lights up in red, indicating that an incorrect conductor has been chosen.

Scope of supply

- 220V AC power cable
- Output cable for connecting to the conductor to be identified
- Pickup coil with cable for interconnection with the receiver
- Operation manual



MADE IN ARGENTINA

TECHNICAL SPECIFICATIONS

RIC 100-TX

Amplitude of the open-circuit output pulse	50 V
Peak current under short-circuit conditions	100 A
Pulses	Every 2,5 sec Every 5 sec Every 5 sec, 2 pulses separated by 1.4 seconds
Indication	Light indication Audible indication
Power supply	2 batteries 12V 5Ah 220Vca $\pm$ 10% -50 Hz
Autonomy	>7 hs
Dimensions in mm (height, width, depth)	320 x 155 x 198
Weight (approximate)	3,7 kg.
Operating temperature	-10°C / +50°C

RIC 100-RX

Sensitivity	Continuously adjustable, adapted to the R-CE coil
Indication	Light indication
Power supply	4 batteries de 1,5V AA
Autonomy	>100 hs
Dimensions in mm (height, width, depth)	146 x 136 x 87
Weight (approximate)	0,35 kg.
Operating temperature	-10°C / +50°C
Current measurement	14 A 140A

R-CE (measurement coil)

Internal diameter	200 mm
Weight (approximate)	0,14 kg

