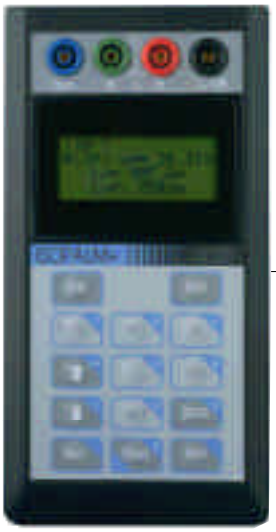
cable fault locator
ISOPALM+

This instrument is designed to identify and locate with high precision faults as insulation faults and break on the wires.
Thanks to the other measurement functions of the ISOPALM+: loop resistance, megohmmeter, voltmeter and capacitance meter, the location is really easy.
ISOPALM+ stores into its memory a database of 4 cable parts allowing measurement onto heterogeneous cable and homogeneous cables.



- Break on the wires fault
- Multifunction
- Rugged case

functions

Insulation fault location
Types of faults:
- Fault between 2 wires on a same pair,
- Fault on 2 wires on different pairs,
- Fault between 1 wire and the ground.

Methods used:
Murray and Fabe (Küpfmuller): possibility to measure with one healthy wire or 2 healthy wires (one called "auxiliary").
Accuracy: 0.2% of the faulty wire resistance. + 0.002 Ω in the reference conditions.

Location of break on the wires
Type of faults:
- 1 broken wire
- 1 broken pair

Using Sauty method (capacitance ratio or capacitance measurement).

Insulation measurement
Range from 0 to 1000 MΩ.
Resolution variable from 0.1 MΩ.
Test voltage: 150 V with current limitation for safety reasons.
Accuracy: 4% rdg up to 50 MΩ.

Capacitance measurement
Range: 0.1 up to 2 µF.
Accuracy: 1% rdg.

Loop resistance measurement
Range: 0 to 10,000 MΩ.
Accuracy: 0.5% rdg + 0.2 Ω.

DC / AC voltage measurements
- Ranges

DC voltage: 0 to 100 V
0 to 300 V
AC voltage: 0 to 100 V RMS
0 to 300 V RMS

- Resolutions: 0.1 V up to 100 V
1 V outside this value.
- Accuracy: 1% rdg + 0.5 V

complementary functions

Rejection
It is possible to choose between two types of DC signal rejection: 50/60 Hz or 16 2/3/50 Hz.

Filter
If the measurements are disturbed by low frequency voltages (from 1 to 10 Hz) an internal filter may be set up to improve the results.

Language
Choice between: English, French, Spanish, Dutch.

general specifications

Display .....
Digital display 4 lines of 16 characters.

Protection .....
• Protection against accidental overload up to 400 V rms on all ranges (100 V rms on measuring loop resistance).
• The device automatically discharges the line capacitances when the measuring is ended.
• The unit automatically switches off when 30 min has elapsed since the last key press.
Safety: CEI 1010-1, CAT II Pol.2 300V.

Operating conditions .....
Normal operating range: 0 to 50°C with relative humidity 20 to 80% non condensing.
Storage and transport range: - 30 to + 50°C.

Power supply .....
4 x R6 or LR6, 1.5 V type batteries.
Autonomy: 50 h on insulation measurement or location with 150 V.
50 h on measuring loop resistance.

Presentation.....
Plastic housing in a buckle bag for easy carrying and using.
Dimensions: 195 x 100 x 45 mm.
Weight: 0.5 kg.

Accessories supplied with the unit .....
- Carrying case
- Measuring leads and "crocodile" type clamps.

optional accessory

Remote looping device ATL 101P.....
Remote looping device ATL 101P has been designed to remote control opening and closing of the loop directly by only one operator from the ISOPALM+.
- Power supply: 9 V battery, type LR61 or 6LF22.
- Autonomy: more than 3000 hours.
- Operating limit range: -10 to + 50°C (10 to 80% HR).
- Max. distance 30 Km.

ordering instructions

Cable fault locator	ISOPALMP

Option .....

Remote looping device	ATL101P

AOIP
BP 182
91133 Ris Orangis CEDEX
FRANCE
+33 169 028 900
www.aoip.com