



## Underground cable and pipe locator

**MRT-700** locates **Underground Cable and Pipes** quickly and easily with accurate confidence energized and de-energized cable, in MV and LV distribution networks. Specially designed for Utilities to trace lines and pipes distribution networks.

MRT-700 with **Fault Pinpointing Functionality** detects faults on pipes and cables, caused by the deterioration of the coating on the pipe and damage in the cable isolation, leading to a current leak to ground. Cable route tracing and fault pinpointing, at one time.

**GridGIS Map Creator**, its digitalisation app that allows to: Storage the route in digital format  
Import/export of files compatible with GIS systems  
Suitable to map of piping network directly in the field  
Develop by ARIADNA Grid

## MRT-700

- > 7 Sensors strategically distributed
- > 10W Output Power selectable by user
- > High Precision (<5% in all axis)
- > Detects 4 active and 2 passive frequencies
- > Measurement of the depth and current amplitude
- > Correct performance >10 km in length
- > Up to 10 mts depth
- > Virtual cable representation in TFT-LCD color display
- > Depth measurement (5% precision)
- > Rechargeable internal battery
- > Operation time >12h
- > Temperature -20 °C / +60 °C
- > Protection: IP54
- > Internal GPS



**Fault Pinpointing Functionality**, combine the MRT-700 device with an A-frame to identify and locate sheath faults. High precision within 5 cm.

## Live network LV phase and feeder identifiers

Low Voltage connectivity data (relation from MV /LV transformer with end-user) results critical for the correct management of electric distribution networks. The use of this information in a GIS solution allows calculation of transformer load balances, faults, preventive maintenance task planning, etc., and at end, guarantees the quality of electrical supply.

In order to cope with electric utilities needs, Merytronic has designed the **ILF G2** and **ILF G2Pro**, the new generation of **Low Voltage Phase and Feeder identifiers**, which can identify 3 phases and up to 12 feeders of a transformer output.

Thanks to its digitalisation app **GridGIS Connect** (develop by ARIADNA Grid) speeds up collection, storage and transfer data to Utility's GIS system. The network topology mapping campaigns result shorter and the integration of topology data into Utility's GIS system faster and without mistakes.

## ILF G2 | ILF G2Pro



- > Works in service, without de-energizing the network
- > Identify, in a few seconds, which of the three phases and up to 12 feeders the consumers are connected to
- > **ILF G2 Pro**, designed for big network mapping campaigns:
  - Up to 99 Transformer Substation simultaneously
  - Several operators with each TS
  - Cascade mode up to 4 electrical levels
- > **GridGIS Connect** app for the digitalisation of the distribution network and its topology:
  - Serial number of meters
  - GPS location
  - Topology data
- > Integrated **Bluetooth**, for automatic data transfer and storage in the app
- > Export-Import data files: Json, kmz, kml, SHP, CSV
- > Suitable for any LV Network configurations
- > Identify neutral cables wrongly connected
- > Cable Identifier functionality with IC2G Rx



## MV & LV, Live and De-energized cable identifier



In electrical maintenance works, in order to cope with safety standards, it becomes necessary to identify de-energized and energized MV/ LV cables unambiguously prior to its manipulation. Cutting the wrong cable may result in personnel life threat or power supply failure.

The **Ariadna CI** cable identifier is an advanced, yet simple to operate, digital tool. With a single device, it allows users to easily identify de-energized cables and MV & LV live cables among multiple conductors, in trenches, manholes, panels, aerial/underground conversions, etc.

Standardized by world's leading Electric Utilities for electric safety procedures.

## Ariadna CI

- > De-energized cable identifier
- > LV live cable identifier
- > MV energized cable identifier
- > Single-phase and three-phase cables
- > Signal injection by direct connection or induction clamp
- > Cable length > 50 km (direct connection)
- > Operation time > 24h at level 2
- > Detects amplitude and polarity of the signal
- > Rechargeable Li-ion battery on transmitter (CI-TX)
- > It doesn't require calibration before using it



Consult us for other cable identifiers solutions:  
*Ariadna CI-DE and Ariadna IC2G*