



Underground cable and pipe locator

The Merytronic's range of underground cable and pipe locator is designed to trace and locate underground facilities in the distribution networks. Both **MRT-700** and **MRT-500** enable to do it in a quick, easy and accurate way, helping to be more efficient with:

- Energized cables
- De-energized cables
- LV, MV and HV lines
- Metallic and non-metallic pipelines

Additionally, interesting functionalities have been incorporated on top of Merytronic' locators that are really helpful for contractors, maintenance departments, civil works, GIS, etc., which allow the tracer to be converted into a **cable identifier, fault locator or even digitize the underground network itself.**

GridGIS Map Creator, its digitisation 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 | MRT-500

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

Consult us for the **MRT-500** features



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

Live LV network 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 digitisation 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 digitizing 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 live 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

- > Safely cable identification
- > De-energized cable identifier
- > Live MV cable identifier
- > Live LV cable identifier
- > Single-phase and three-phase cables
- > Signal injection by direct connection or induction clamp
- > Cable length > 50 km (direct connection)
- > Rechargeable battery in transmitter (CI-Tx), operation time>24h
- > Detects amplitude and polarity of the active signal
- > Identification sound alert (CI-Rx)



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

