

## Underground cable and pipe locator

### MRT-700

The Merytronic's range of underground cable and pipe locator is designed to trace and locate underground facilities in the distribution networks. Both **MRT700** and **MRT500** 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



In additional, 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.**

- 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 y 2 passive frequencies
- Up to 10 mts depth
- Operative time >20 h
- 10W Output Power selectable by user
- Correct performance >10 km in length
- Rechargeable internal battery
- Operation Temperature -20 °C / +60 °C
- Protection: IP54

## Advanced Features

### Mapping of the underground facilities



#### GPS on-board

The SIMPLE way to digitise the route you are tracing, using the internal GPS. Just press the button two seconds over the cable, and the point parameters (GPS location, current, depth...) will be recorded in the device's internal memory. Export data in KML files.

#### Digitalisation app

The most ACCURATE way, to draw the cable routes in the map of the tablet. Tablet's GPS is use only for pre-location. However, a high accuracy location is obtained by placing the point manually in the map, as per surrounding references (building, tree, street corner...). It can either store/visualise the work directly in **GridGIS Map Creator** app, or export it (as \*.Json) to another GIS system.

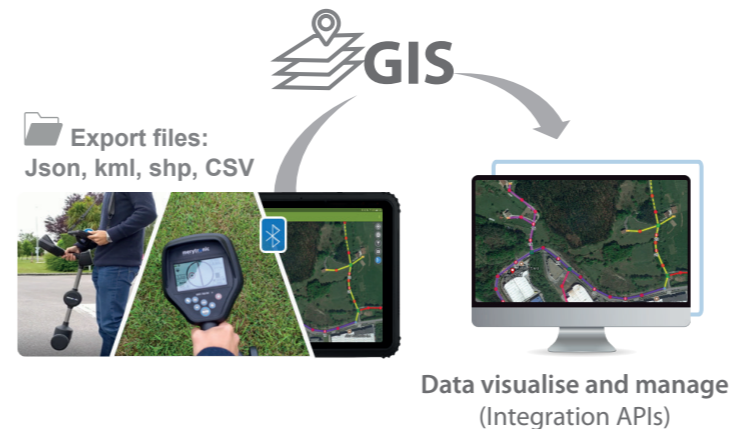
*Note: The MRT-700 is also used by topography companies where extremely high precision is required by connecting the device to an external GPS.*

### GridGIS Map Creator

- 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



aiadna Grid  
Develop by Aridna Grid.  
www.ariadnagrid.com

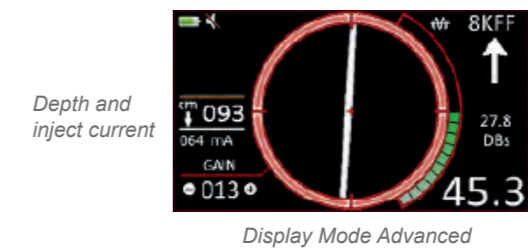


### Fault Pinpointing Functionality



**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.

- An exact location of cable sheath damage
- High precision within 5 cm
- Cable route tracing and fault pinpointing, at one time
- Supplied with a special injected frequency - **8KFF**
- Display with 2 visualization mode Basic and Advanced (Dual)
- A-frame, robust structure with 2 spikes for measurements



- Injected frequency
- Location of the fault
- How far the fault is

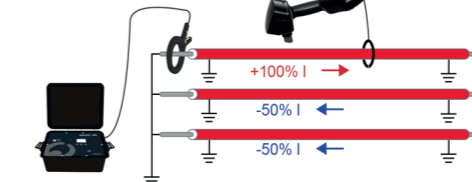


### Cable Identifier for Electric Safety activities

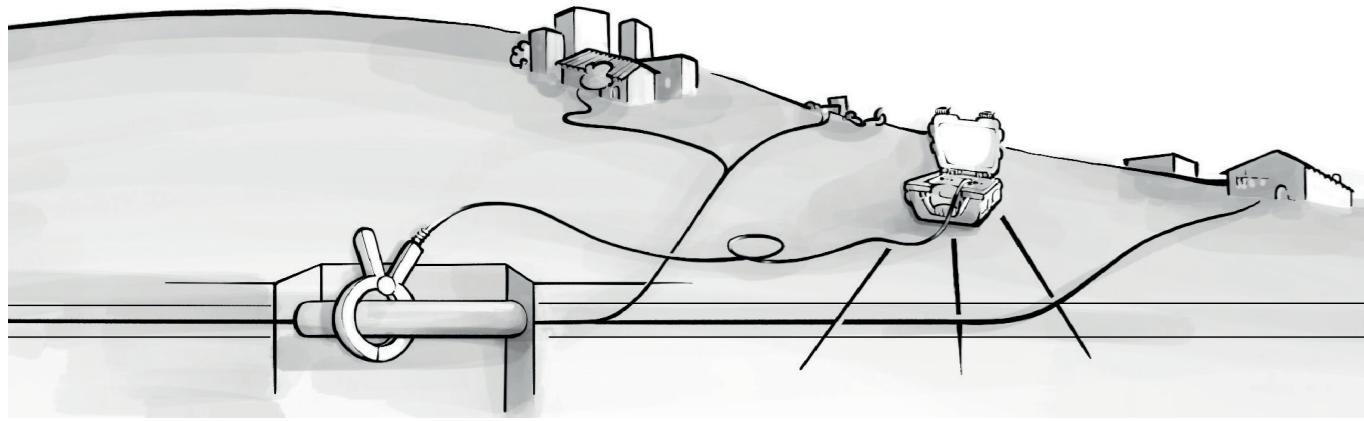


In electrical maintenance work, in order to comply with safety standards, it becomes necessary to **identify de-energized cable** prior to its manipulation. The MRT-700 allows to realize the cable identification **with total reliability.**

- Any type of cable
- Detects amplitud and polarity of the active signal



Display Cable Identifier Functionality



## MRT-500

The **MRT500** enables to trace and locate underground distribution networks and others facilities in a quick, easy and accurate way:

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



### Advanced functionalities

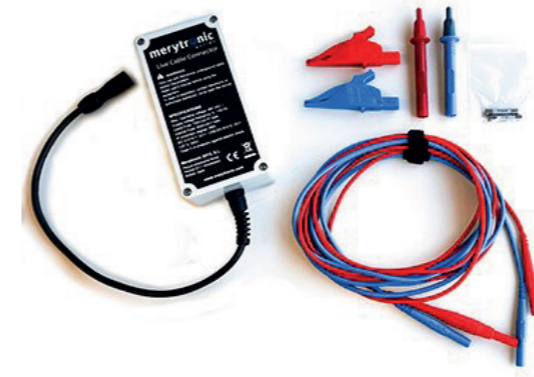
- > App for mapping the cable network, GridGIS Map Creator
- > Tracing and detection of probes in non-metallic pipes

- 5 Sensors strategically distributed
- Visual and acoustic indications of cable/pipe
- Measurement of the depth and current amplitude
- Depth measurement accuracy
- Detects 4 active y 2 passive frequencies
- Up to 10 mts depth
- Operative time >20 h
- 10W Output Power selectable by user
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## Accessories

### Accessories for energized cables

**Live cable connector**  
For a direct connection in energized cables.

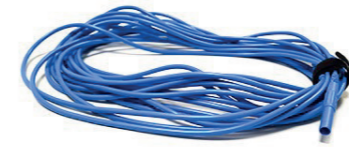


### Accessories for de-energized cables

**Multiple phase connection kit**  
Allows to connect the 3 phases to earth.



**Ground extension kit**  
For earth connection.  
Length: 10m.

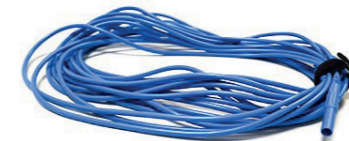


### Accessories for metallic pipes

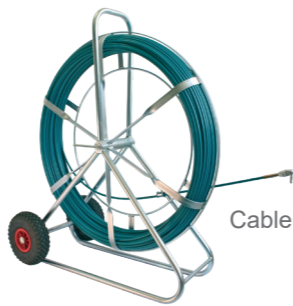
**Neodymium magnet**  
A quick direct connection to pipeline.



**Ground extension kit**  
For earth connection.  
Length: 10m.



### Accessories for non-metallic pipes



**Cable guides**  
Different lengths  
Cable conductive o no-conductive



**Probe**  
Different diameters  
8kHz and 32 kHz frequencies

Contact us for more information:

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**Underground cable and pipe locator**  
Distribution network mapping solution

**MRT-700 | MRT-500**

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