

## Advanced Features

### GridGIS Connect app



Speed up field working time  
Smart data collection  
Simplify data transfer and avoid mistakes



- Records information of Secondary Substation utility assets, along with pictures (SS Name, Transformer, LV Panel, LV Feeders, LV and MV cable types, MV Switchgear, etc.)
- Record information of the Ariadna ILFI2 device configuration (CD Coding, relation between feeder numbers and Rogowski coil connection input, etc.)
- GPS Position of each reading point (SS, Meters, Meter Boxes, etc.)
- Record Meter ID and Picture
- Log of Line Device detections (CD-Phase-Feeder results)
- Track work progress



[www.ariadnagrid.com](http://www.ariadnagrid.com)

## Technical features

### ILF G2 / ILF G2 Pro\* \* GridGIS Connect app included

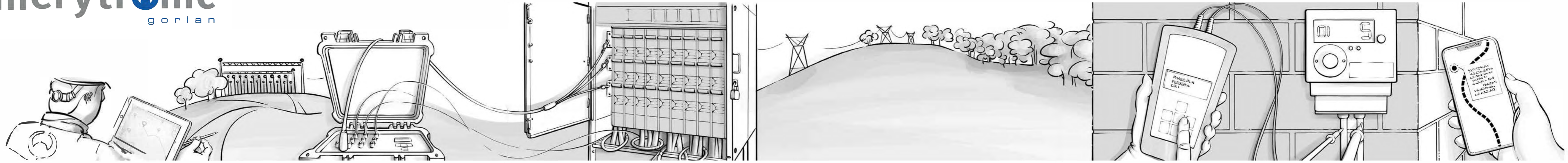
CD (Central device)		LD (Line device)	
Dimensions and weight	343x327x152 mm / 4 kg	Dimensions and weight	120x220x65 mm / 0,75 Kg
Protection	IP65	Protection	IP54
V Phase-Phase	220-480 Vac (50/60Hz)	V working	90-265 Vac (50/60Hz)
V Phase-Neutral	130-280 Vac (50/60Hz)	Vmax	480 Vac (50/60Hz)
Vmax ( Phase-Neutral / Phase-Phase)	480 Vac (50/60Hz)	Power supply	4x1,5V AA batteries
Transformer LV output configuration	Star and Delta	Output current	70A Peak
Short circuit protection	4A 6,3 X32 fuses	Short circuit protection	16A / 6,3x32 fuses / 500V
Working temperature	-20 °C / 60 °C	Working temperature	-10 °C / 55 °C
Bluetooth output power	+1,5 dBm	Bluetooth output power	+1,5 dBm

### IF3

CD (Central device)		LD (Line device)	
Dimensions and weight	273x247x127 mm / 2,5 kg	Dimensions and weight	120x220x65 mm / 0,75 kg
Protection	IP65	Protection	IP54
V Phase-Phase	200-440 Vac (50/60Hz)	Power supply	4 x 1,5v AA batteries
V Phase-Neutral	100-290 Vac (50/60Hz)	V working	100-290 Vac (50/60Hz)
Vmax ( Phase-Neutral / Phase-Phase)	440 Vac (50/60Hz)	Vmax	440 Vac (50/60Hz)
Cable length	3000 m	Cable length	1800 mm
Short circuit protection	4A/6x32 mm cable - 4A/5x20 mm inside	Short circuit protection	16A / 6x32 fuses / 500V
Working temperature	-10 °C / 55 °C	Working temperature	-10 °C / 55 °C

Network mapping solutions  
Phase and feeder identifiers

ILF G2 / ILF G2 Pro / IF3



## Live network LV phase and feeder identifiers

### ILF G2 / ILF G2 Pro

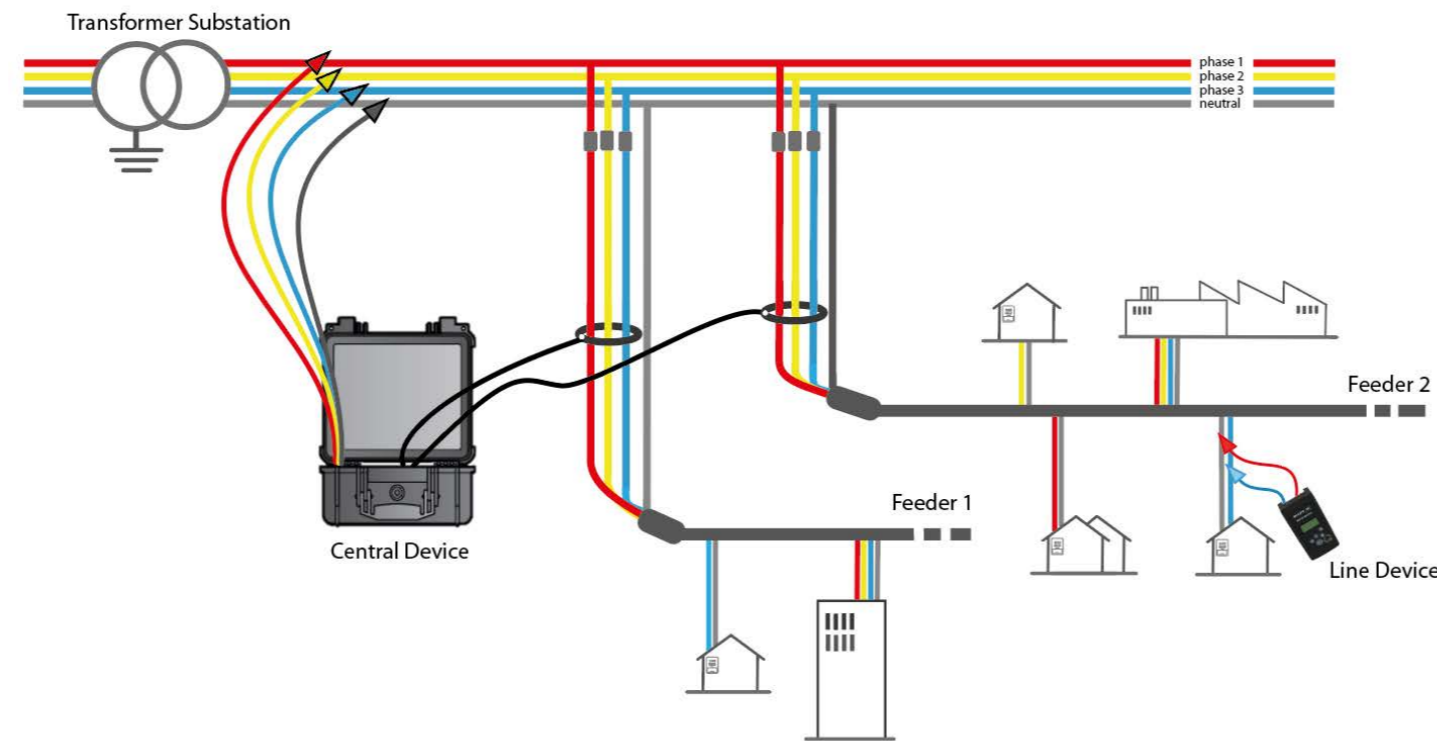
Low Voltage connectivity data (relation from MV/LV transformer with end user) results critical for the correct management of electric distribution networks. The use of this information in a GIS solution allows calculation of transformer load balances, faults, preventive maintenance task planning, etc., 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 G2 Pro, 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 app **GridGIS connect** (develop by ARIADNA Grid) speeds up collection, storage and transfer data to Utility's GIS system. The network topology digitalization campaigns result shorter and the integration of topology data into Utility's GIS system faster and without mistakes.



This equipment determine connectivity between subscribers and the different lines and phases of an MV/LV transformer substation in a fast, easy and reliable way. It is not necessary de-energizing the line, so electrical supply is kept throughout the identification process.



#### Main features:

- > 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
- > Data export in \*.json, \*.kml, \*.kmz, \*.shp compatible with GIS system Works in service, without de-energizing the network
- > Proved efficiency on cable distances > 1 km.
- > Suitable for any LV Network configurations: Delta, Star (no neutral), coupled or ringed networks, cascade arrangement, up to 480 Vac between Ph-Ph and 50-60 Hz
- > Identify neutral cables wrongly connected
- > cable Identifier functionality with ICI G Rx

## Live network LV phase identifier

### IF3

In order to cope with electric utility needs, Merytronic has designed the IF3 Low Voltage phase identifier.

This equipment determines the connectivity data between subscribers and phase of an MV/LV transformer substation in a fast, easy and reliable way.

IF3 works without de-energizing the line, so electrical supply is kept throughout the identification process.



#### Main features:

- > Works in service networks, without de-energizing the line
- > Three phases can be identified in few seconds
- > Central Device and Line Device communicate with each other by means of coded messages through the distribution network. This way the use of radio or other communication extra equipment is avoided
- > A single operator can easily use it
- > Operational for all kind of Low Voltage network configurations, up to 440 V between phases, 50 or 60 Hz