

ILF G2 | ILF G2 Pro

Low Voltage Live Network phase and feeder identifier

It results critical to know the network topology data in order to maintain a correct management of electrical distribution networks. Therefore, it's essential to know HOW and WHERE each of the LV assets/consumers are connected, to which transformer-feeder-phase.

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.

Merytronic has designed the new generation of Phase and Feeder identifiers **ILF G2** and **ILF G2 Pro**, which can identify 3 phases and up to 12 feeders of a transformer output. They are designed for big mapping campaigns, up to 99 Transformer Substations simultaneously.

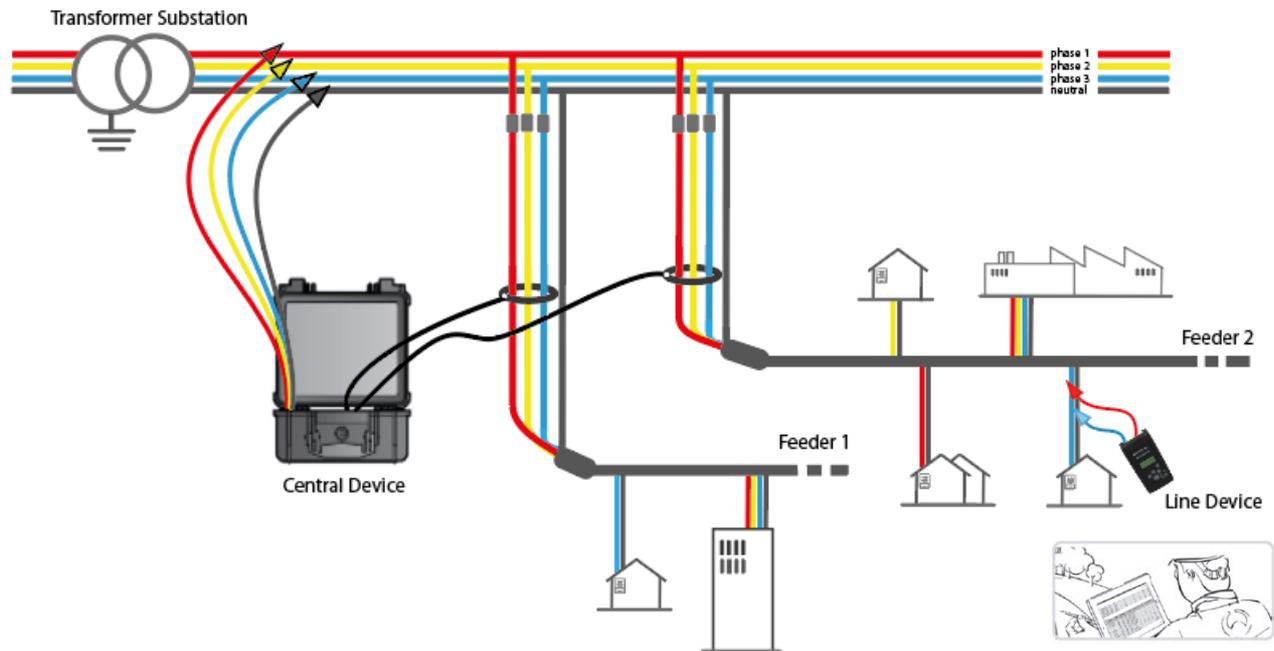
Thanks to its app **GridGIS Connect** (develop by **ARIADNA Grid**) speeds up collection, storage and transfer data to utility's GIS system. The network topology digitalization campaigns result shorter and the integration of topology data into utility's GIS system faster and without mistakes.



Main features:

- **Works in service**, without de-energizing the network
- **Identify to which of the three phases and up to 12 feeders** the consumers are connected
- Designed for **big mapping campaigns**
- **Identification is done a few seconds**
- **Up to 99 Transformer Substation simultaneously**
- Proved efficiency on cable distances > 1 km.
- Suitable for **any Low Voltage Network configurations**: Delta, Star (no neutral), coupled and/or ringed networks, cascade arrangement, up to 480 Vac between Ph-Ph and 50 or 60 Hz.
- **ILF G2 Pro available for cascade arrangement of distribution networks** (with several feeder pillars up to 4 electrical levels)
- A single operator can easily use it.
- Line Device with **integrated Bluetooth**
- **GridGIS Connect** app for collect, storage and transfer data (compatible with GIS system).  
- Multiple field-work crews for each Transformer Substation (Central Device)

Working diagram



Technical features

Central Device (CD)



Line Device (LD)



Size (mm)	343x327x152	Size (mm)	120 x 220 x 65
Protection	IP65	Protection	IP54
Weight	4 kg	Weight	0.75 Kg
V Phase-Phase	220-480 Vac	V Phase-Neutral	90-265 Vac
V Phase-Neutral	130-280 Vac	Vmax	480 Vac
Vmax connection	480 Vac	Power supply	4x1.5V AA (6VDC)
Frequency	50/60Hz	Frequency	50/60Hz
I _{max}	0.35-0.40 A	S.C. protection (1)	16A 6.3x32 mm F fuse
S.C. protection (1)	4A 6,3X32 mm T fuse	Operating temperature	-10 / 55°C
Operating temperature	-20 / 60°C	Bluetooth frequency band operation	2.402 – 2.480 GHz
Bluetooth frequency band operation	2.402 – 2.480 GHz	Bluetooth output power	+1.5 dBm
Bluetooth output power	+1.5 dBm		

(1) Short Circuit Protection

Safety standards: IEC 61010-1:2010/EN 61010-1:2010/ UNE-EN 61010-1:2011; IEC 61010-2-030:2010/ UNE-EN 61010-2-030:2011; IEC 60950-1:2005 / EN 60950-2006 / UNE-EN 60950-1:2007. **EMC standards:** IEC 61326-1:2012/ UNE EN 61326-1:2013, ETSI EN 301489-1 v1.9.2 (2011-09), ETSI EN 301489-1 V2.2.1, ETSI EN 301489-17 v3.1.1 (2017-02); UNE-EN 61000-3-2:2014; UNE-EN 61000-3-3:2013; UNE-EN 61000-4-2:2009; UNE-EN 61000-4-3:2006; UNE-EN 61000-4-4; UNE-EN 61000-4-5; UNE-EN 61000-4-6; UNE-EN 61000-4-11; UNE-EN 55032:2015 **RF standards:** IEC 62479:2010 / UNE EN 62479:2011

Power cable identification and location solutions