

Ultraportable live network LV cable identifier

Electric utilities and their contractors need to identify live electric cables under certain circumstances: when opening a trench, making branch circuits, before and after distribution network maintenance duties, etc. This identification has to be **quick** and **unambiguous due** to possible consequences that could result when choosing the wrong cable (life threat, network failure, etc.).

Merytronic has developed the IC2G, an ultraportable Cable Identifier which is used in LV distribution cables for positive cable identification.



The device consists of a transmitter (IC2G-TX) and a receiver (IC2G-RX), and it is easy to use: the transmitter (TX) is connected to an LV distribution cable and the receiver (RX) is used to identify or locate that cable upstream, towards the MV/LV transformer.

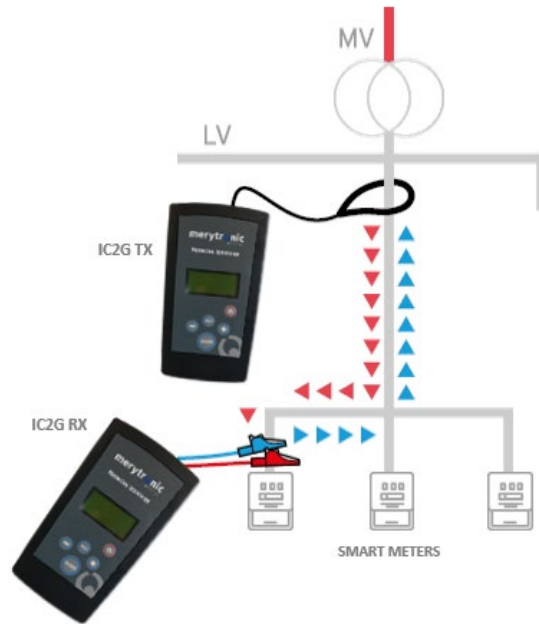
The display shows voltage at signal injection point (TX), current (RX), received signal polarity (RX) and battery information (TX and RX)



Main features:

- Positive **cable identification without de-energizing the line**
- Works on **LV distribution cables up to 250 Vac** (50-60 Hz)
- Two different sensors:
 - **Sensor Ring:** Identifies cables by placing a sensor ring around the cable (single-phase cables)
 - **“U” sensor:** Identifies conductors by touching the cable (single-phase and three-phase cables)
- The identification algorithm works continuously, and **positive identification** is achieved **in seconds**
- **Easy to use** due to automatic synchronization between transmitter and receiver

Working diagram



Technical features

Ariadna IC2G-TX <i>Transmitter</i>		Ariadna IC2G-RX <i>Receiver</i>	
Size (mm)	120 x 220 x 65	Size (mm)	120 x 220 x 65
Weight	0.75 kg	Weight	0.75 kg
Protection degree	IP54	Protection degree	IP54
V working	100-250 Vac (50/60Hz)	Max. passive current	250 A (50/60Hz)
V connection max.	480 Vac (50/60Hz)	Identification indication	Acoustic and visual (display)
Power supply	4x1.5V AA batteries	Power supply	4 x 1.5V AA batteries
Output current	70 A peak	Sensors	Rogowski and U sensor
Cable length	180 cm	Operating Temperature	-10 / 55 °C
S.C. protection	6A 10x38 mm fuse		
Operating Temperature	-10 / 55 °C		

Quality standards

Ariadna IC2G is compliant with EU Low Voltage Directive 72/23/CEE and EN 61010-1 (Safety requirements for electronic equipment for measurement, control and laboratory use)



Power cable identification and location solutions