

전선 통신 케이블 경로탐사/식별 장비
무정전작업으로 250V활전선 식별작업 가능

Ariadna IC2G

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.). * 위험한 결선 / 잘못된 결성 등을 방지할 수 있다

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.

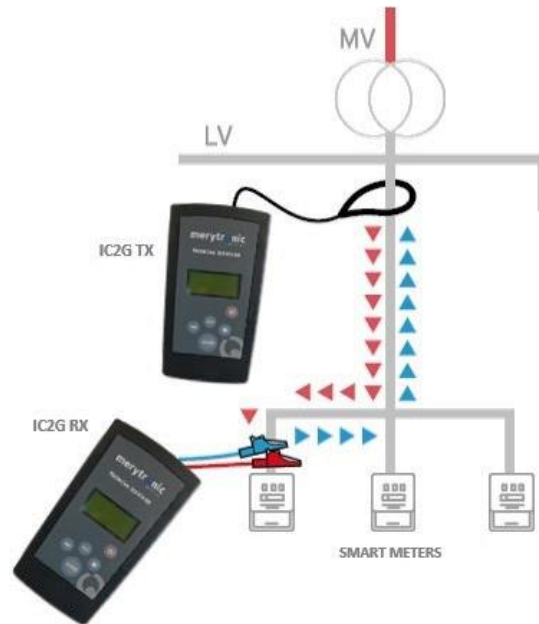
The display shows voltage at signal injection point (TX), current (RX), received signal polarity (RX) and battery information (TX and RX)



Main features:

- Positive **cable identification without de-energizing the line** 무정전상태로도 명확한 식별작업 가능
- Works on **LV distribution cables up to 250 Vac (50-60 Hz)** 250 ACV까지 적용
- Two different sensors: U-type & Ring-type 센서 구성
 - **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 Transmitter 송신기



Size (mm)	120 x 220 x 65
Weight	0.75 kg
Protection degree	IP54
V working	100-250 Vac (50/60Hz)
V connection max.	480 Vac (50/60Hz)
Power supply	4x1.5V AA batteries
Output current	70 A peak
Cable length	180 cm
S.C. protection	6A 10x38 mm fuse
Operating Temperature	-10 / 55 °C

Ariadna IC2G-RX Receiver 수신기



Size (mm)	120 x 220 x 65
Weight	0.75 kg
Protection degree	IP54
Max. passive current	250 A (50/60Hz)
Identification indication	Acoustic and visual (display)
Power supply	4 x 1.5V AA batteries
Sensors	Rogowski and U sensor
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