

Phase-Identification System FUU-DE®



Features

- Specially designed signal-injection clamps for use in compact stations.
- Very powerful: works with cables up to 200 km length
- Max. cable diameter: 70 mm.

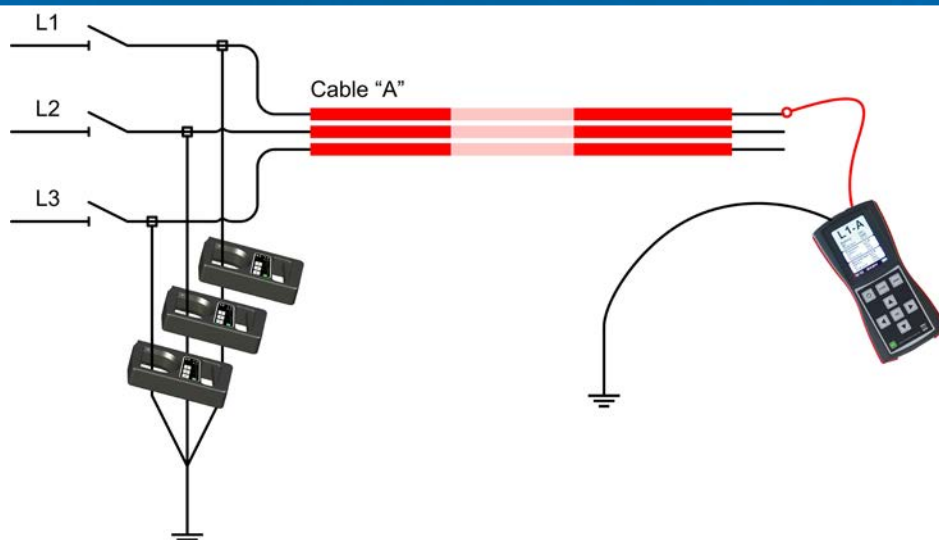
Description

Phase identification is a necessary work during installation, or after a repair, of medium voltage cables, in order to ensure correct connection of the three cable cores. According to EN 50110-1 all parts that are to be worked on shall be earthed and short-circuited. That includes the cable cores which need to be identified.

Application

The FUU-DE has been specifically designed for this purpose. Three signal injection clamps are applied around the cable cores or earthing cables. Each clamp has its unique code (indicating phase and cable), which is electro-magnetically injected into each core.

At the other end, the detector is connected to a core and sheath, thereby closing the loop; after which the cable and phase information is displayed on the screen.



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Long cables

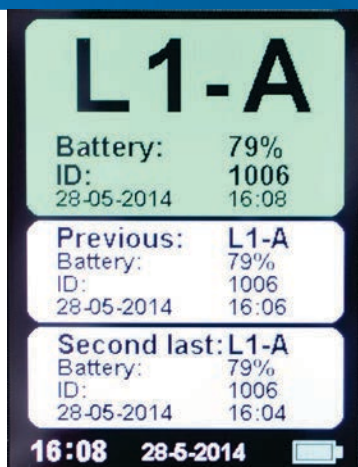
- Cable lengths are increasing, 5 miles or longer is no longer exceptional. Conventional phase identifications have not been designed for these lengths, and stop functioning with long cables.
- De FUU-DE has been field tested with cables of up to **200 miles** and on cables with high attenuation.



Specially designed clamps

The injection clamps have been specifically designed for the FUU-DE. The design has been modelled to allow access to cables in tight situations. Front-operated, hard to reach places are still accessible. In spite of the compact design, the clamps can be used on cable cores with a diameter up to 70 mm. Added to the compact design is the feature.

The clamps have an autonomy of approx. 2 weeks in auto-wake-up mode, charging is wireless in the carrying case.



Clear information

The color display on the detector shows clear information, including history of previous measurements, with time stamps. The battery level of the injector clamps is shown as well. The user interface is multi-lingual, including English.

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Battery charger

- Case is charger for the injectors
- Wireless charging
- Case has room for detector and cables

Specifications	Injector
Dimensions	200 x 110 x 42 mm
Weight	900 gr
Max. cable diameter	70 mm
Battery	LiPo battery NTC BMS
Battery autonomy	> 2 weeks in "Auto" modus, >12 hours in "On" modus
Battery charging time	Approx. 8 hours
Signaalstrength	max. 200 mV top / top
Max. cable length	150 km
Power supply charging case	90...300 VAC 30 W
Dimensions charging case	405 x 325 x 176 mm
Environment	Temperature 0°C to +40°C, rel. humidity 30%...90% no condensation

Specifications	Detector
Dimensions	215 x 100 x 39 mm
Weight	400 gr
Display	TFT color with backlight
Batteries	4x1,5V AA, lasts more than 100 measurements
Languages	Dutch, English, German, French, other languages being prepared
Environment	Temperature 0°C to +40°C, rel. humidity 30%...90% no condensation

FUU-DE complies with EN 61010-1, EN 61326-1, EN 61000-3-2, EN 61000-3-3

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