

ESG NT

Digital earth fault locator



- **Highly sensitive**
- **Automatically adapts to voltage level**
- **Automatically filters out interfering signals**
- **Automatic zero calibration, no adjustments necessary**
- **History mode**
- **High-contrast color display**

DESCRIPTION

Pinpointing means precisely locating faults in the cable sheath. These faults cause the measuring current to flow into the ground. When the measuring current exits the cable at the fault point, the current builds a voltage gradient which can be measured by earth rods and earth fault locators. The step voltage method accurately locates sheath faults: as it approaches the fault point, the step voltage potential increases. After it passes the fault, the potential decreases with reversed polarity. The change in polarity allows the fault to be located precisely.

The ESG NT earth fault locator measures the step voltage potential produced by underground test generators. Other existing underground distortions such as potential equalisation current, DC offset, 16 2/3 Hz or influences from cathodic protection systems are automatically detected and eliminated. The automatic zero calibration maintains the display calibration continuously at zero.

The ESG NT has a high-contrast color display on which the measured step voltage is displayed in two ways: as a bar graph (similar to a conventional pointer instrument), and as a continuous "history-display" which shows both the current process and the last 5 to 6 measurement records. In this way, changes are displayed clearly and continuously. The deflection of the instrument always indicates the direction of the earth fault.

Thanks to the EasyGo principle, almost no operational steps are required. Basic settings can be made simply by using the rotary encoder.

The ESG NT automatically adapts to the input voltage level. Neither manual calibration of the display and zero point, nor the adaption of the measuring range is necessary.

Moreover, the ESG NT has an automatic pulse detector, allowing it to work with almost any type of pulse generator.





TECHNICAL DATA*

ESG NT

Display	High-contrast color TFT, 320 x 240 pixels
Sensitivity	5 µV ... 200 V
Suppression of disturbances	50/60 Hz, 16 2/3 Hz, KKS, DC
Zero adjustment	Automatically
Power supply	6 x LR6 Alkali-Mangan (AA)
Operation time	> 20 hours
Protection class	IP 54
Dimensions receiver (H x B x D)	65 x 225 x 100 mm
Weight receiver	0.9 kg (including batteries)
Length earth rods	1 m (dividable and isolated)
Weight earth rods	0.8 kg each
Length test leads	2 m

ALL ADVANTAGES AT A GLANCE

- Automatic suppression of external potentials
- Automatic adaption to the voltage level
- Automatic detection of the pulse rate
- Automatic zero adjustment
- Very high measuring sensitivity in the µV range
- Very easy operation
- Cable mounting at the dividable insulated earth rod

ORDERING INFORMATION

Product	Order no.
ESG NT Set Display unit, earth spike (2 pcs), test lead red, test lead black, contact sponge (2 pcs), soft carry bag with mold insert, batteries (6 pcs)	1004629-S
Options:	
Wall holder display unit	118303215
Wall holder earth rods	898722056
Ground holder earth rods	128309944
A-Frame	A-Frame

* We reserve the right to make technical changes.

GERMANY
Megger GmbH
Obere Zeil 2
D-61440 Oberursel
T +49 6171 92987 0
F +49 6171 92987 19
info@megger.de

Seba Dynatronic
Mess- und Ortungstechnik GmbH
Dr.-Herbert-lann-Str. 6
96148 Baunach
T +49 (0) 9544 680
F +49 (0) 9544 2273
team.dach@megger.de

Hagenuk KMT
Kabelmesstechnik GmbH
Röderaue 41
01471 Radeburg
T +49 (0) 35208 840
F +49 (0) 35208 84249
team.dach@megger.de

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www.megger.de
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