

Secure voltage detection on catenary systems

PASSION FOR PERFECTION



Voltage detectors

BO-A 2.0

BO-A AC/DC



Features and Benefits

- ▶ Low weight and optional bag – Easy handling and transport
- ▶ Complete self-testing – Maximum user safety
- ▶ Plug-in or telescopic system – Easy and quick to use
- ▶ Bright LEDs and loud acoustic signals – Good perception under all conditions
- ▶ Shockproof and long-life battery – Maintenance-free (> 6 years)
- ▶ Automatic frequency detection – Increased user safety

BO-A 2.0

The BO-A 2.0 is a voltage detector for medium voltage overhead line systems of electrified railways.

It is designed to detect the absence or presence of voltage during maintenance work for example. The voltage detector BO-A 2.0 is suitable for use in 16.7 / 50 / 60 Hz networks. It is designed according to IEC 61243-1.

Technical Data

- ▶ Use: In dry and wet conditions
- ▶ Indication: ‘Ready-to-operate’: green LED
‘Voltage present’: red LED and acoustical signal
‘Voltage not present’: green LED
- ▶ Period of “Stand-by state”: 65 s ±15 s
(Automatic self-activation available)
- ▶ Type of indication: According to group III IEC 61243-1
- ▶ Nominal voltage / nominal frequency: 11kV/16.7 Hz, 15 kV / 16.7 Hz, 25 kV / 50 Hz or 25 kV / 60 Hz (Other voltages & frequencies on request)
- ▶ Power supply: Replaceable Lithium cells (Minimum lifetime of 6 years based on 10 ready-to-operate cycles per day for a total of 230 work days per year)
- ▶ Operating temperature: -25 to +70 °C, climatic class N and W



Learn more about the BO-A 2.0

BO-A AC/DC

The voltage detector BO-A AC / DC is a two-pole test equipment for overhead line systems of electrified railways and other typical voltage applications. It provides clear evidence of the presence or the absence of the operating voltage.

The BO-A AC / DC tester is suitable for use in DC and AC voltage networks. When the BO-A AC / DC is connected to a live line, an optical and acoustical signal is activated. A DC or AC voltage network is detected and indicated automatically.

Technical Data

- ▶ Use: In dry and wet conditions
- ▶ Period of "Stand-by state": 65 s ±15 s
- ▶ Type of indication: According to group III IEC 61243-1
- ▶ Nominal voltage / nominal frequency:
The following standard versions are available:
Un = 100 V - 300 V | Un = 300 V - 900 V | Un = 1000 V - 3000 V
See imprint on type plate, tolerance ± 10 %
DC, AC 16,7 - 60 Hz
- ▶ Power supply: Replaceable Lithium cells (Minimum life-time of 6 years based on 10 ready-to-operate cycles per day for a total of 230 work days per year)
- ▶ Operating temperature: -25 to +65°C, climatic class N and W



Learn more about the BO-A AC/DC

Features and Benefits

- ▶ Low weight and optional bag - Easy handling and transport
- ▶ Complete self-testing + residual voltage - Maximum user safety
- ▶ Plug-in or telescopic system - Easy and quick to use
- ▶ Bright LEDs and loud acoustic signals - Good perception under all conditions
- ▶ Shockproof and long-life battery - Maintenance-free (> 6 years)
- ▶ Automatic frequency detection - Increased user safety



Dipl.-Ing. H. Horstmann GmbH is a medium-sized company based in Heiligenhaus near Düsseldorf (Germany). The company was founded in 1946 by Heinrich Horstmann, and since that time it has been a successful family-owned company. Due to its long experience and continuous investment in research and product development Dipl.-Ing. H. Horstmann GmbH is today recognized as a leading manufacturer in medium voltage technology for:

- ▶ Short-circuit and earth fault indicators
- ▶ Voltage testers and voltage detecting systems
- ▶ Earthing devices and accessories.

Dipl.-Ing. H. Horstmann GmbH
Humboldtstraße 2 – 10
42579 Heiligenhaus
Germany

T +49 2056 976 0
info@horstmanngmbh.com
www.horstmanngmbh.com