

PD Surveyor Air

Handheld PD Surveying tool for MV cable and plants



- **Three PD sensor technologies in one device**
- **Early detection of PD activity**
- **Universal application – can be applied to MV cables, MV switchgear & other types of MV plants**
- **Directs maintenance resources straight to the problem areas**
- **Easy to use**

DESCRIPTION

The PD Surveyor Air™ is the first line of defence for the detection of PD activity in medium voltage (MV) power cables and plants in voltage range from 6.6 kV to 45 kV.

The robust test unit, incorporating a digital TEV dB display and external acoustic probes, enables the user to carry out rapid, “look-see” insulation condition assessments through the unique combination of three PD measurement technologies: HFCT, TEV and Airborne Acoustic.

The PD Surveyor Air™ test unit meets the requirements of utility and industrial MV plant owners; this simple, portable, handheld PD screening device can be used by all operational staff in the substation, and is suitable for rapid PD screening of MV metal-clad switch gears, cables and other types of plants.

The PD Surveyor Air™ is recommended as a PD pre-screening tool to completely monitor the network. It is useful as a precursor to more in-depth diagnostic testing, which is only carried out if and when required (i.e. PD is detected by the PD Surveyor Air unit). Examples of more in-depth diagnostic tests include Online Monitoring with the sebaKMT LPD Monitor and Offline PD Diagnosis.

Optional accessories are available to improve both the flexibility and detection range of the PD Surveyor Air™ unit: the outdoor acoustic parabolic receiver (incl. laser pointer) can detect and locate surface/corona discharges on insulators or outdoor terminations.

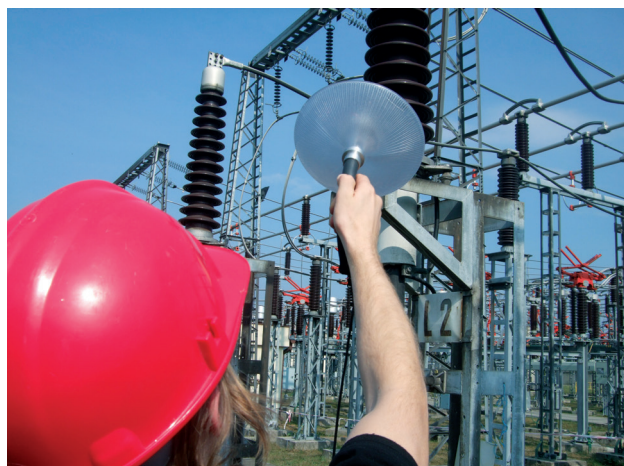


Online PD measurement on MV cable with the HFCT sensor.

TECHNICAL DATA*

PD Surveyor Air

Measurement range	HFCT 300 ... 30000 pC TEV 15 ... 50 dB AA 8 ... 30 dB
Power supply	Built-in battery, Li-Ion
Battery charger	V _{in} 90 ... 264 V AC 50/60 Hz V _{out} 8,4 V DC
Operating temperature	-10 °C ... +55 °C
Storage temperature	-20 °C ... +60 °C
Dimensions (W x H x D)	120 x 220 x 110 mm
Protection class	IP 30
Weight	1.26 kg



Outdoor insulation testing with the optional acoustic parabolic receiver.

FEATURES

- Handheld, pre-screening tool, suitable for on-line detection of PD activity in MV cables and plants
- Three PD sensor technologies combined in one device: acoustic (AA), capacitive (TEV) and inductive (HFCT)
- PD-measurements on MV-Cable with HFCT sensor
- PD-measurements in metal-clad switchgear/ plant with acoustic sensor and accurate digital TEV-dB measurements
- Lightweight and portable device with an easy-to-understand, 7-level, colour-coded PD display.
- Test time per cable/plant item 10 ... 30 sec.

SCOPE OF THE DELIVERY

- PD Surveyor Air™
- HFCT 100/50 sensor and 100 kHz filter
- Standard headphones
- Battery charger/ Connection cables
- Soft carry case
- Operating manual

ORDERING INFORMATION

Product	Order no.
PD Surveyor Air	118308082-5
Options:	
Indoor acoustic probe	118308092
Outdoor acoustic parabolic receiver	118308093
Peltor PPE headphones (hard hat suitable)	118308094
Accessories carry case	118308095

* We reserve the right to make technical changes.

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