

PDS 62-SIN

Portable PD detection and localization system



- Partial discharge diagnostics with VLF sinusoidal voltage up to 62kVpeak
- With 15 kg – the lightest PD measuring unit on the market
- Real-time data evaluation and display of results, no post processing needed
- General and localized Phase Resolved PD pattern (PRPD) display for defect type recognition

DESCRIPTION:

Network operators can now get faster and significantly more reliable information about the quality and the condition of their cables. This thanks to the brand-new PDS 62-SIN PD detector. For the first time, it has become possible to immediately locate faults in underground cables during the actual PD measurement. The PDS 62-SIN has been designed for all Megger VLF Sinusoidal testers up to 62kVpeak.

Based on many years of field experience, customer demands and unique innovations, the PDS 62-SIN has been developed. This has been reflected in the PD detector software, it has never been easier to perform PD measurements; starting with real-time data analysis and display of results during the actual measurement, ending with the highest flexibility in creating customized reports.

Furthermore the PD detector software will support the user with the data evaluation by means of so called Phase Resolved Partial Discharge (PRPD) patterns. With help from these PRPD patterns the user is able to distinct between different types of PD defects, such as corona or internal PD. This is of major importance for partial discharges located at terminations; corona discharges are not problematic, whereas internal PD would.

With its weight of 15 kg only the PDS 62-SIN is the lightest PD measuring unit on the market. The PDS 62-SIN comes with all accessories needed to perform PD measurements, like the in-house and certified PD calibrator, Laptop and connection cables.

FEATURES

- High coupling capacity of 25nF
- Low weight of 15 kg only
- PD measurement acc. to IEC 60270
- Automatic bandwidth adaption
- Fully automatic calibration
- Real-time data evaluation and display of results
- General and localized PRPD display
- Monitored withstand testing
- Reporting per mouse-click

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TECHNICAL DATA*

PDS 62-SIN

Voltage

Operating Type	max. 62kV _{peak} VLF sine wave (0.01Hz - 0.1Hz)
Capacity of HV coupling capacitor	25nF
Sensitivity range	2 pC ... >100 nC
PD self-noise level	< 2 pC
PD impulse repetition range	100 kHz

PD localization

Measuring range	0 ... 16,000 m v/2 = 80 m/μs
Propagation velocity v/2	50 ... 120 m/μs
Sampling rate	125 MHz (8 ns)
Bandwidth	3 / 20 MHz (switchable)
Accuracy	1% of the cable length
Resolution	± 1 pC / ± 1 m
Filtering	attachable HF filter (max. 1A)
Power supply	Via supplied power supply 90 ... 264 VAC, 50/60 Hz
Weight	15 kg
Dimensions (W x D x H)	36 x 33 x 64 cm
Temperature	
Operation	-20 °C ... 55 °C
Storage	-40 °C ... 70 °C
Relative humidity	93% at 30 °C (non-condensing)

PD calibrator

Pulse level	100pC, 200pC, 500pC, 1nC, 2nC, 5nC, 10nC, 20nC, 50nC, 100nC
Pulse frequency	50 Hz, 60 Hz, 100 Hz or via Light triggered sensor
Power supply	9-volt block battery
Weight	410 gr
Dimensions (W x D x H)	195 x 85 x 35 mm
Temperature	
Operating	-10 °C ... 50 °C
Storage	-30 °C ... 70 °C

SCOPE OF DELIVERY

- PDS 62-SIN PD coupler
- PDS 62-SIN accessoires in bag
- PD calibrator
- Laptop
- SW license incl. 3 hardware keys

ORDERING INFORMATION

Product	Order no.
PDS 62-SIN set consisting of:	
PDS 62-SIN, PD (partial discharge) measuring system (V4) T9	1017502
PD calibrator 100 pC till 100 nC	2008807
PD software license main package (3 activations, 5 year duration)	1389
Mandatory selection lead set (1x)	
Accessories PD measuring system T9	2018760
Accessories PD measuring system T9 NAFTA	2018762
Mandatory selection preinstalled Notebook (1x)	
Notebook DE	2007127
Notebook EN	2007129
Other languages on request	
Optional HV connection cables:	
PDS HV connection cable + grounding cable T9 3 m	2018769
HV connection cable PD (partial discharge) M MC10/10 T9 5m	2018764
HV connection cable PD (partial discharge) M MC10/10 T9 10m	2018765
HV connection cable PD (partial discharge) M MC10/10 T9 15m	2018766
Optional accessories:	
Diagnostic connection set	890017909
PD-free adapter TE PC-MC-UNI-L, long version (460 mm), incl. thread-adapter M16 to M12	1013564
PD-free adapter TE PC-MC-UNI-K, short version (310 mm), incl. thread-adapter M16 to M12	1013563
Transport case PDS 62-SIN	90023948

*The information in this document is subject to change without notice and should not be construed as a commitment by Megger Germany.
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SALES OFFICE

Megger Germany GmbH
Dr.-Herbert-lann-Str. 6
96148 Baunach, Germany
T +49 9544 680
F +49 9544 2273
team.international@megger.com

PDS62-SIN_DS_EN_V04b

www.megger.com

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