Megger.

PDS 60-v2 Portable PD detection and localization system



- Suitable for DAC, VLF CR and VLF Sinusoidal power sources up to 60 kVrms
- 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 PDS 60-v2 PD detector. For the first time, it has become possible to immediately locate faults in underground cables during the actual PD measurement.

Based on many years of field experience, customer demands and unique innovations, the PDS 60-v2 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. The PDS 60-v2 has been designed for all Megger VLF Sinusoidal, Cosine Rectangular and Damped AC power sources up to 60kVrms. The PDS 60-v2 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 25 nF
- Suitable for DAC, VLF Sinusoidal and VLF CR excitation voltages
- 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

TECHNICAL DATA*

PDS 60-v2 Voltage

Operating Type

Capacity of HV coupling capacitor Sensitivity range PD self-noise level PD impulse repetition

PD localization

Measuring range Propagation velocity v/2 Sampling rate Bandwidth Accuracy Resolution Filtering Power supply

Weight Dimensions (W x D x H)

Temperature Operation Storage

Relative humidity

max. 60 kV_{eff} DAC, VLF CR und VLF Sinus (0.01 Hz – 0.1 Hz) 25nF 2 pC ... >100 nC < 2 pC

100 kHz

0 ... 16,000 m | v/2 = 80 m/µs 50 ... 120 m/µs 125 MHz (8 ns) 3 / 20 MHz (switchable) 1% of the cable length ± 1 pC / ± 1 m Analogue and digital 24 V via TDS or optional connection box 30 kg 39 x 58 x 76 cm

-20 °C ... 55 °C -40 °C ... 70 °C 93% at 30 °C (non-condensing)

PD calibrator

Pulse level

Pulse frequency Power supply Weight Dimensions (W x D x H) **Temperature**

Temperature Operating Storage 100 pC, 200 pC, 500 pC, 1 nC, 2 nC, 5 nC, 10 nC, 20 nC, 50 nC, 100 nC 50 Hz, 60 Hz, 100 Hz or via Light triggered sensor 9-volt block battery 410 gr 195 x 85 x 35 mm

-10 °C ... 50 °C

-30 °C ... 70 °C

SCOPE OF DELIVERY

- PDS 60-v2 PD coupler
- PDS 60-v2 accessoires in bag
- PD calibrator
- Laptop
- SW license incl. 3 hardware keys

ORDERING INFORMATION	
Product	Order no.
PDS 60-v2 Set consisting of:	
PDS 60-v2 PD coupler	1007582
PD PD calibrator 100 pC till 100 nC	2008807
PD software license incl. 3 dongles	90011937
Mandatory selection for TDM-P/VLF Sinus test system	
CB-PDD connection box PD detector PDS 60-v2	1006044
Mains cable 1x (EU: 810000024, UK: 118307335, US: 502025220, AUS: 90020435)	select
Mandatory selection lead set (1x)	
Lead set PDS 60-v2 "Standard"	2003837
Lead set PDS 60-v2 "NAFTA"	2011838
Mandatory selection preinstalled Notebook (1x)	
Notebook DE	2007127
Notebook EN	2007129
Other languages on request	
Optional HV connection cables:	
PDS 62 HV connection cable PD free 3 m	2005655
PDS 62 HV connection cable PD free 5 m	890010915
PDS 62 HV connection cable PD free 10 m	890023555
PDS 62 HV connection cable PD free 15 m	890015603
PDS 62 HV connection cable PD free 5 m (NAFTA)	2012596
PDS 62 HV connection cable PD free 10 m (NAFTA)	2012597
PDS 62 HV connection cable PD free 15 m (NAFTA)	2012598
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 60-v2	90019220
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