

## LDS-6

### Applications

The LDS-6 is a highly sophisticated digital measuring system for the PD detection according to the standard IEC 60270, VDE 0434 as well as various IEEE and other standards for the High Voltage Test and Measurement Technology. It meets also ICEA T-24-380 standard for Cable Industry.

- » PD quality tests on high voltage equipment
- » PD diagnosis on developing insulating materials
- » Designed for on-site PD diagnosis tests as well as for manufacturing and research
- » PD fault location for power cables

### Benefits

- » features the well known LDIC Analysis and Diagnostics software
- » expandable for various PD / RIV applications up to tan delta / Power Factor

### Specifications

- » Sensitivity range: 1pC to 100,000pC (Autoranging 0-93db)
- » Upper limited frequency: 20 MHz
- » Digital input of signals: 12 bit
- » Partial Discharge Location (Reflectometer method, Enhancement of the location sensitivity), optional available
- » Computer-based, phase resolved PD data acquisition, storage, analyzing and post-processing
- » Simultaneous PD data and test voltage acquisition
- » Diagnostic tools for PD failure recognition/statistical data evaluation
- » Hardware settings completely software controlled
- » Polarity recognition of the PD pulses
- » Double pulse resolution 10 ms
- » Minimal Superposition error and single pulse recognition capability up to 100 kHz pulse repetition rate
- » Protocol generator for creating customer specific test reports (optional available)
- » Ethernet connection between measuring system and computer
- » UHF-Frequency Range, bandwidth 110MHz - 1700MHz, optional available

### Accessories

- » LDB-5 - Bridge impedance for PD detection on the basis of balanced bridge (IEC 60270)
- » LDC-5 - Calibrator for external calibration of the PD measuring circuit in pC of apparent charge up to 500 pC
- » LDJ-5 - Charge Injector for calibration of the PD measuring circuit with charge



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magnitudes up to 50,000 pC

- » LDF-5 - Filter for suppression of radio interferences
- » LDM-5 or LDM-5/U - Measuring impedance for signal and test voltage decoupling (bandwidth 20 MHz, maximum current 5 A, optional 50 A)
- » LDM-5/E - Extension unit for matching the voltage measuring adjustment of LDM-5/U to several ranges and different coupling capacitors
- » LDM-5/M6 - Switching box for channel switching of the PD- and voltage channels (software controlled), more channels on request available
- » UHF-Processing Unit, optional available

### Additional Pictures

