



LPD-Monitor

Online PD Condition Monitoring system

Benefits

- Portable, online Partial Discharge monitoring system for MV and HV applications
- 16 Channels
- Efficiently planning of maintenance activities
- Quick and easy to install
- Automatic knowledge based onboard PD evaluation
- Always up to date via remote access connection

Description

The LPD-Monitor (Live Partial Discharge-Monitor) is an Online PD-monitoring system for temporary or permanent monitoring of MV or HV installations up to 66kV. 16 input channels and the low weight make the LPD-Monitor the ideal system for a fast check of MV/HV-networks for critical PD inside cables or their accessories. With quick look and see tests valuable data concerning the condition of the cable can be captured and based on the results of the tests maintenance activities can be scheduled like e.g. off-line PD-measurements.

The LPD-Monitor captures the PD data via inductive (HFCT) and/ or capacitive (TEV) sensors. The inductive sensors are of the split-core type and can easily be attached around the screen or core of the cable. The capacitive sensors can be magnetically attached to switchgear or terminations. Since both sensors can be easily attached, outage time is prevented or limited to a minimum.

At regular time intervals (every 1-20 min, depending on the number of active channels) the system monitors all connected sensors. The recorded data is automatically analysed by the onboard software. The PD-data is classified and displayed in two categories, "Cable PD" and "Local PD". The criticality of the PD is evaluated by a comparison with a knowledge database and divided into four assessment categories. When critical PD has been detected a warning message will be generated.

Remote access to the LPD-Monitor enables the user to get instant access to the most actual PD-data or to follow the PD trend as function of time.

Scope of delivery

- LPD-Monitor
- 6 inductive sensors (HFCT 100/50)
- 2 capacitive sensors (TEV)
- Cable-set
- Accessory bag
- User manual
- Keyboard/ Mouse/ Modem



Technical Data

LPD-Monitor

Number of channels	16
Sampling rate	100 MS/s
Power supply	110 .. 240 V AC, 50...60 Hz
Power consumption	90 VA
Operating temperature	-20 °C ... + 45 °C
Remote access via	LAN/GPRS/HSDPA/dial up modems
Protection class	IP 20
Weight	Approx. 15 kg

HFCT-sensor (100/50)

Transfer Impedance	4,0 mV/ mA ±5%
-3dB Freq. response	100 kHz – 20 MHz
Droop time	2,5 µs ±5%
Typical rise-time	≤ 20 ns
Rec. load impedance	50 Ω
Max. 50Hz current	300 A

TEV-sensor

Frequency response	1 MHz – 50 MHz
Droop time	0,4 ms ±5%
Typical rise-time	≤ 5 ns
Equivalent capacitance	150 pF
Rec. load impedance	50 Ω

Options

- Additional set of sensors (6 HFCT 100/50, 2 TEV)
- HFCT's are also in other dimensions available, please contact Seba for more info
- Flat coax cables for door pass through
- Hotstick for mounting sensors on "live" cables



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