



TE PDS Partial Discharge Detector

Inductive- Capacitive PD Detection

Description

The TE PDS provides an inductive and a capacitive sensor for quality assessment on various electrical installations. The most common application for this instrument is to check the quality in terms of PD of joints and terminations immediately after installation. The TE PDS is used exclusively on insulated HV installations.

Detecting possible weakspots is done with the capacitive sensor, which picks up electric field changes due to PD. The intensity of the signal in pico coulomb decreases with increasing distance to the PD source and is immediately transformed into a dB-value and displayed. This change of signal level leads to the exact location of the PD.

The TE PDS is also applicable on shielded joints if the shield is grounded on both sides of the joint. This measurement uses the built-in inductive sensor. The course of the signal level along the joint indicates the exact location where highest level is indicated closest to the PD fault location.

PD pulses at the respective faults are reliably detected and evaluated by the integrated VHF sensors in the frequency range of 100 MHz. A high indication will provide higher reliability and quantification of the weakspot. The signal levels are indicated visually and acoustically.



Detecting a PD source with the capacitive sensor



Technical Data

Range	100 pC ... 25000 pC
Level display LED	6 dB ... 48 dB
Frequency range	30 MHz ... 200 MHz
Operating time	approx. 30 hours
Power supply	4 x Alkaline LR6

Features

- dual sensor system for capacitive and inductive PD detection
- rugged and weatherproof plastic housing with LED PD level indication
- insulated extension rod for different application situations
- acoustic indication with frequency modulation
- visual battery status indication
- VHF frequency range
- long operating time and automatic switch-off
- simple operation and handling

Scope of Delivery

- TE PDS instrument
- insulated extension rod
- Set of batteries