

PD LOC-SX

Partial discharge pinpointing system to precisely locate PD faults in medium voltage cables

Megger[®]



- Precise PD pinpointing in mixed cable networks as well
- Easy to connect
- Battery operated transmitter

DESCRIPTION

The PD Loc is used to precisely locate any identified PD weak spots during an offline PD diagnosis. In most cases, exact joint positions or cable parts are unknown; with help from the PD LOC this problem can be solved and joints or cable parts can be replaced, as part of preventative maintenance program. This independent of the cable type: it functions on pure PE/XLPE, PILC, EPR as well as on mixed cable types.

The system consists of the PD TX impulse transmitter and the Teleflex SX receiving/evaluating unit (can also be ordered without Teleflex SX). The Teleflex SX unit consists of an input amplifier for processing the signal and a control unit in a rugged case. The visualisation, which shows the distance of the transmitting unit of the system, is shown on the reflectometer.

The pulse transmitter PD-TX can control the pulse width and displays the battery and charging status.

The impulse transmitter continuously transmits a sufficiently strong impulse signal into the exposed cable via an inductive coupler (42 or 64 mm) or test lead.

These impulses and their reflections from the far end of the cable are recorded and visualized by the Teleflex SX working in a particular operation mode.

The time difference from the incoming reflection is used to calculate the distance to the injection point of the impulse which in turn is compared with the results of the previously recorded PD measurement. In many cases, this approach facilitates highly precise positioning of the fault location, helping to avoid unnecessary and cost-intensive excavation when replacing or repairing a cable.

When using the system on cables with a lead, aluminium or dense copper wire sheath, please be aware that the quality of the shielding may limit these devices' functionality.

TECHNICAL DATA*

PD-TX

Supply	12 V ext. vehicle charging cable, mains power supply
Operating time	Approx. 24 h with internal Li-Ion battery
Pulse repetition frequency	3.33 Hz
Pulse width	50 ns, 200 ns, 500 ns, 1 µs
Pulse amplitude	250 V
Impulse current	200 A
Output protection	Short circuit proof
Protection class	IP 54
Operating temperature	- 10 °C ... + 50 °C
Weight	2 kg

Coupler

Inner diameter	42 mm standard 64 mm optional
Plug connector	BNC

FEATURES

- Foil keyboard with LED's for selecting the pulse width
- Impulse couplers available in size 42 and 64 mm
- Very easy to handle and operate
- 24 hours of operation with one battery charge
- Evaluation identical to the PD pre-location

SCOPE OF DELIVERY

- Teleflex SX-1 (depending on set chosen)
- Impulse transmitter PD-TX in the rugged case
- Coupler 42 mm
- BNC cable 75 cm + BNC Adapter
- Teast lead, 2 m
- Manual

ORDER INFORMATION

Product	Order no.
PD LOC incl. Teleflex SX-1, consisting of:	
Teleflex SX-1-VS sales set	1012747
PD LOC-VS sales set	1007776
PD LOC excl. Teleflex SX-1, consisting of:	
PD LOC-VS sales set	1007776
Options:	
Coupler 64 mm	820010407
Vehicle charging cable LK 22	90012589

* We reserve the right to make technical changes.

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