PDS100

PD SURVEYOR

TOGETHER WE POWER THE WORLD®

HANDHELD PARTIAL DISCHARGE (PD) DETECTION WITHOUT THE NEED FOR COSTLY OUTAGES

Quick surveys in live substations

The PDS100 is an RFI surveying tool that is designed for use in a live substation. Without the need for outages or special connections, the unit can detect partial discharge (PD) in just a few seconds thus making it an ideal tool for a condition based maintenance (CBM) program. Whole substations can be surveyed and analyzed. The PDS100 is the perfect tool to detect and locate sources of PD.

- **Safe and effective method for PD detection**
- **Can identify and locate defects using RFI technology**
- **For non-invasive routine surveys of substations**
- **Ideal for every service or test team**
- **Advanced user-friendly diagnostic tool**
- **Perfect tool for a Condition Based Maintenance (CBM) program**

www.doble.com

PDS100

In the tool box for each service team

The PDS100 instrument is ideal to use on a daily basis or during routine substation inspections together with other methods like infrared scanning. The PDS100 should be a part of the basic tool box for all service and test teams.

User- friendly

The PDS100 is a rugged, light-weight and powerful high-tech instrument with a big display and large soft key buttons. The instrument is easy to use and the software enables the operator to record and analyze the PD signals and make decisions for further actions.

Technology

The instrument searches for PD in the radio frequency area. Harmful PD will reveal itself by the electromagnetic energy emitted from the area where the activity is. The PDS100 captures the electromagnetic energy in the RF spectrum and displays a “footprint” of the RF interference from partial discharge causing the radiation.

Order information

Item
PDS100

Description
Complete with Case, Antenna, Adapter and PC SW

Order no.
TN-80000

Technical Specifications

Power supply:

External supply	External DC adaptor, 12 V @ 2 A
DC adaptor	85 - 264 V AC (47 - 63 Hz)/ 12 V DC
Internal battery:	Li-Ion, 7.2 V, 6.6 Ah
	Battery life > 4 hours

Detection and Sweep functions:

Detector types:	Peak, quasi-peak, RSM and average
Sweep processing:	Continuous, Average, Max Hold and Differential

Frequency:

Measurement range	50 MHz - 1000 MHz

Amplitude:

Display units	Linear (V, mV, µV)
	Logaritmic (dBmV, dBµV)

Data storage/ transfer:

Internal	Flash memory
External	USB storage class compliant
	USB Flash Drive/ USB Hard Disk Drive
Data Transfer	Measurements can be downloaded from a PC

LCD screen:

Size (W x H)	132 x 100 mm / 5.20 x 3.94 in
Resolution	640 x 480 pixels, 256 colors

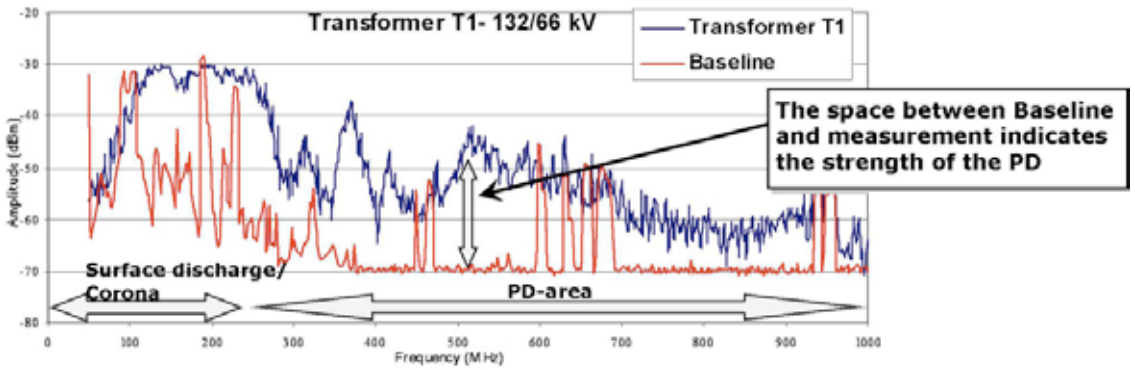
Mechanical:

Size (WxHxD)	350 x 220 x 70 mm / 8.85 x 12.20 x 2.25 in
Weight	2.4 kg / 5.29 lbs

Environment:

IP classification	IP64 with top covers closed
	IP51 with top covers open
Humidity	0 - 95% non-condensing
Operating temperature	-10°C to +50°C / 14°F to 122°F
Storage temperature	-20°C to +70°C / -4°F to 158°F

Specifications are subject to change without notice.



For more information, contact
PDinfo@doble.com
or visit www.doble.com

Doble is certified ISO 9001:2000
Doble is an ESCO Technologies Company

MKT-SL-PDS100-05/09