

# PDS100



## PD SURVEYOR

**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**

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# 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,  $\mu$ V)  
Logarithmic (dBmV, dB $\mu$ V)

### 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:

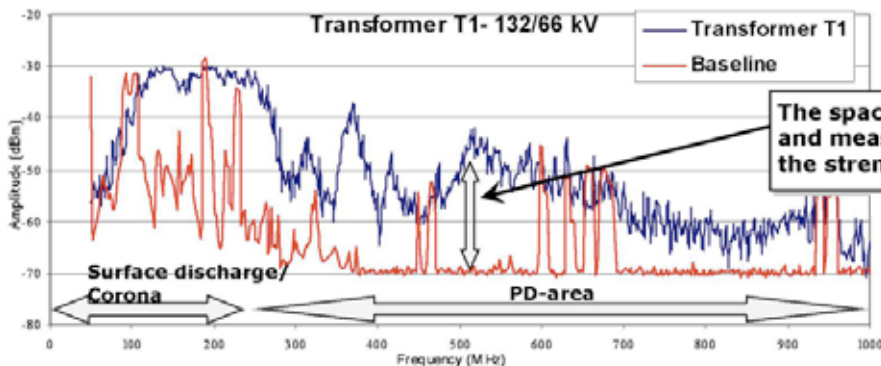
Size (W x H) 132 x 100 mm / 5.20 x 3.94 in  
Resolution 640 x 480 pixels, 256 colors

### Mechanical:

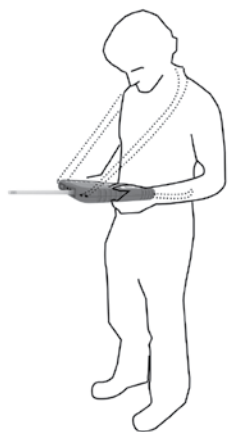
Size (WxHxD) 350 x 220 x 70 mm /  
8.85 x 12.20 x 2.25 in  
Weight 2.4 kg / 5.29 lbs

### Environment:

IP classification IP64 with top covers closed  
IP51 with top covers open  
Humidity 0 - 95% non-condensing  
Operating temperature 0°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](mailto:PDinfo@doble.com)

or visit

[www.doble.com](http://www.doble.com)

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

MKT-SL-PDS100-03/10