



- For fast verification of partial discharge activity in MV and HV plants
- Universal application range, thanks to wide variety of sensors
- Integrated camera and QR code scanner
- Easy to use via keypad and touchscreen
- Reporting via MeggerBook RE software

# DESCRIPTION

Defects in medium and high voltage systems not only require costly repairs, but can lead to failures of network sections with corresponding consequences. Therefore, it is in the interest of all network operators to recognize signs of impending defects as early as possible and to be able to take appropriate countermeasures on time.

With the PD Scan, Megger offers a lightweight, robust and portable PD scanner that can quickly inspect various types of equipment for partial discharge signals.

The PD Scan is used for the early detection of partial discharges emanating from defects in medium voltage switchgears and other electric equipment. For this purpose, the device has two internal sensors (TEV, airborne acoustic) and can also be operated with various types of external sensors (TEV, HFCT, airborne acoustic, contact probes).

The operation of the device is simple; it can be controlled via the three soft keys as well as via the intuitive touch display. Thanks to the auto-recognition of the connected external sensor, malfunction operation, as well as bothersome browsing through individual screens, can be eliminated.

Thanks to the large variety of sensors, the PD Scan can be used for multiple application ranges. PD within the cable insulation can be detected using the HFCT sensor. Partial discharges in encapsulated switchgears can be measured by using the contact-probe sensor and corona and surface discharges in MV and HV systems can be identified with the parabolic acoustic sensor. Besides the partial discharge sensors, also a temperature and humidity sensor will be supplied. This is very important as the temperature and humidity can have a significant impact on the partial discharge readings. One of the advantages of the PD Scan is that the sensor is connected directly to the device, meaning data is stored within the test files, removing the need to manually add them later on during the reporting stage.



The variety of sensors have made this handheld scanner a unique measuring device. To support the end user, measurement data will be automatically evaluated and interpreted, and pictures of the identified defects can be made and directly integrated into the report by using the integrated camera. Furthermore, the QR code scanner can directly take over the switchgear/asset data; there is no need to inconveniently rename the folder for each different test object. Make life easier by reducing the number of loose cables in the workspace through using the optional (and comfortable) Bluetooth<sup>®</sup> headset, which can also be used with a helmet.

Establishing detailed and individual test reports can be performed quickly by using the supplied MeggerBook RE reporting software.

# **TECHNICAL DATA\***

# **PD SCAN**

#### **TEV Measurement (capacitive)**

Measurement range Bandwidth Resolution Accuracy

## Acoustic sensor

Measurement range Resolution Accuracy Transducer centre frequency

### **HFCT sensor (inductive)**

Measurement range Bandwidth Resolution Accuracy Impedance

Housing Display

### Interfaces

Control IP rating

Temperature Operation Storage Relative humidity

#### Power supply Charger

Case PRO

Internal battery Operating time Charging time **Dimensions (W x H x D)** PD Scan Case STD Case PRO **Weight** PD Scan Case STD -10 ... 80 dBmV 2 ... 80 MHz 1 dBmV ±1 dBmV

-10 ... 70 dBµV 1 dBµV ±1 dBµV 30, 40 und 80 kHz

-10 ... 80 dB 100 kHz ... 20 MHz 1 dB ±1 dB/< ±10% 50 Ohm

Injection moulded 3.5 inch touchscreen, 320 x x240 pixel Lemo (external sensors) USB type C (charging, headphone, PC) Bluetooth<sup>®</sup> via 3 soft keys and touchscreen IP 54

-10 ... 55 °C -20 ... 70 °C 93 % at 30 °C (non-condensing)

Input voltage 90 ... 264 V, 50/60 Hz Output voltage 5 V DC Li-lon 3.6 V / 3.35 Ah > 8 Stunden ± 2 hours

220 x 80 x 30 mm 422 x 366 x 107 mm 512 x 445 x 313 mm

420 g 940 g 3400 g

# FEATURES

- Three PD measurement methods in one device
- Plug and Play; PD Scan automatically recognizes which external sensor has been connected
- Easy to use via soft keys and touchscreen
- Universal operating range due to large variety of sensor
- Automatic evaluation and interpretation of the results
- Optional comfortable Bluetooth<sup>®</sup> headphones
- Integrated camera
- QR code scanner for asset recognition
- Different views and PRPD display for defect type recognition
- Temperature and humidity measurement using supplied sensor with storage on PD Scan itself
- MeggerBook RE reporting software
- Use your own mobile device for wireless data transfer by USB OTG



PDK-STD

## Set 1: Switchgear basic

The basic set is ideally suited for users who only want to concentrate on MV plant

# Set 2: Switchgear basic + cable

The basic set + cable is ideally suited for users who want to concentrate on MV plant and cable

#### Set 3: Switchgear pro + cable

In addition to the HFCT and standard sensors, the pro set additionally contains external acoustic sensors for a more detailed analysis of MV plant

# Set 4: Switchgear pro + cable + outdoor

The complete set for those who want to use all the functionalities of the device



PD Scan Set 1 Switchgear Basis         PD Scan main device, external TEV sensor, temperature and humidity sensor, function tester, charger + USB cable, headphone standard, transport case STD, USB Stick with operating manual and reporting software       1011 121         PD Scan Set 2 Switchgear Basic + Cable       PD Scan main device, HECT SC40 sensor, external TEV sensor, temperature and humidity sensor, function tester, charger + USB cable, headphone standard, transport case STD, USB Stick with operating manual and reporting software       1011 122         PD Scan Set 3 Switchgear Pro + Cable       PD Scan Set 3 Switchgear Pro + Cable       1011 123         PD Scan Set 3 Switchgear Pro + Cable + Outdoor       PD Scan set 3 Switchgear Pro + Cable + Outdoor       1011 123         PD Scan rain device, Parabolic receiver, flexible acoustic sensor, acoustic-contact probe, HFCT SC40 sensor, external TEV sensor, temperature and humidity sensor, function tester, charger + USB cable, Bluetooth® headphone, transport case UNI, USB Stick with operating manual and reporting software       1011 123         PD Scan main device, Parabolic receiver, flexible acoustic sensor, acoustic-contact probe, HFCT SC40 sensor, external TEV sensor, temperature and humidity sensor, function tester, charger + USB cable, Bluetooth® headphone, transport case UNI, USB Stick with operating manual and reporting software       1011 124         Options:       Upgrade kit Set 1 to Set 4       1011 124         Parabolic receiver, flexible acoustic sensor, acoustic-contact probe, HECT Sensor for cable screen, inner-diameter 20mm       1016 226         PD Scan demonstrator box	ORDERING INFORMATION	
PD Scan main device, external TEV sensor, temperature and humidity sensor, function tester, charger + USB cable, headphone standard, transport case STD, USB Stick with operating manual and reporting software 1011 121 PD Scan Set 2 Switchgear Basic + Cable PD Scan main device, HFCT SC40 sensor, external TEV sensor, temperature and humidity sensor, function tester, charger + USB cable, headphone standard, transport case STD, USB Stick with operating manual and reporting software 1011 122 PD Scan Set 3 Switchgear Pro + Cable PD Scan main device, flexible acoustic sensor, acoustic-contact probe, HFCT SC40 sensor, external TEV sensor, temperature and humidity sensor, function tester, charger + USB cable, Bluetooth® headphone, transport case UNI, USB Stick with operating manual and reporting software 1011 123 PD Scan Set 4 Switchgear Pro + Cable + Outdoor PD Scan main device, Parabolic receiver, flexible acoustic sensor, acoustic-contact probe, HFCT SC40 sensor, external TEV sensor, temperature and humidity sensor, function tester, charger + USB cable, Bluetooth® headphone, transport case UNI, USB Stick with operating manual and reporting software 1011 124 Options: Upgrade kit Set 1 to Set 4 Parabolic receiver, flexible acoustic sensor, acoustic-contact probe, HFCT sensor, Bluetooth® headphone and transport case UNI 1011 550 PD Scan demonstrator to part of cable screen, inner-diameter 20mm 1006 296 HFCT 3C40, HFCT Sensor for cable screen, inner-diameter 20mm 1006 296 HFCT Sc40, HFCT Sensor for cable screen, inner-diameter 40mm 1006 296 HFCT Sc40, HFCT Sensor for cable screen, inner-diameter 40mm 1006 296 HFCT Sc40, HFCT Sensor for cable screen, inner-diameter 60mm 1012 294 Acoustic coupling paste for ACP 30 Ac Prabolic receiver Acples acoustic sensor Acoustic-contact probe ACD 20 PD Scan demonstrator, transport case ACD 20 PD Scan demonstrator for Sable screen, inner-diameter 60mm 1010 524 Acoustic coupling paste for ACP 30 Ac Prabolic receiver ACP 30 Ac Prabolic receiver ACD 30 Ac Prabolic receiver ACD 30 Ac PraboL	Product	Order no.
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PD Scan Set 2 Switchgear Basic + Cable         PD Scan main device, HFCT SC40 sensor, external TEV sensor, temperature and humidity sensor, function tester, charger + USB cable, headphones standard, transport case STD, USB Stick with operating manual and reporting software       1011 122         PD Scan Set 3 Switchgear Pro + Cable       PD Scan main device, Hextble acoustic sensor, acoustic-contact probe, HFCT SC40 sensor, external TEV sensor, temperature and humidity sensor, function tester, charger + USB cable, Bluetooth® headphone, transport case UNI, USB Stick with operating manual and reporting software       1011 123         PD Scan Set 4 Switchgear Pro + Cable + Outdoor       PD Scan main device, Parabolic receiver, flexible acoustic sensor, acoustic-contact probe, HFCT SC40 sensor, external TEV sensor, temperature and humidity sensor, function tester, charger + USB cable, Bluetooth® headphone, transport case UNI, USB Stick with operating manual and reporting software       1011 124         Options:       Upgrade kit Set 1 to Set 4       1011 125         Parabolic receiver, flexible acoustic sensor, acoustic-contact probe, Bluetooth® headphone and transport case UNI 1011 550       1011 123         PD Scan demonstrator, transport case and batteries       1011 123         PD Scan demonstrator, transport case and batteries       1011 123         PD Scan demonstrator, transport case and batteries       1011 423         Optional accessories:       1011 423         PD Scan demonstrator, transport case and batteries       1011 423         Optional accessories:       1011 423<		1011 101
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	PD Scan-WMSD, wireless mass storage device for PD Scan	1012 538
	PDK-STD, transport case for PD Scan set 1 and 2	9 0026 227
		9 0031 295



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