

Charged Plate Monitor CPM 8374B Set

Product Number EP0201082



Product Description

- Measurement of the effectiveness of ionizers and their offset voltages
- Measurement of the discharge time of a preselected voltage threshold value to a lower voltage value (standard ± 1000 volts to ± 100 V)
- Measurement of the voltage potential on an integrated plate electrode (150 x 150 mm) using a built-in electric field meter
- Storage of measurement data in the CPM
- Dimensions: 15.2 x 15.2 x 15.2 cm (W x H x D)
- Complies with IEC 61340-4-7

The Charged Plate Monitor CPM 8374 measures the voltage potential on its integrated plate electrode. A timer function is used to determine the discharge time from a preselected voltage threshold value to a lower voltage value. A high-voltage unit and an electric field meter based on the field-mill-influence principle are integrated. This enables the necessary high input impedance of $10^{15} \Omega$ to measure electrostatic voltage potentials and discharge times of air ionization units.

The device complies with the European EN 61340-5-1 and the American EOS/ESD S.3.1. The high-voltage unit is high-impedance isolated and therefore safe to touch.

Thanks to its compact design and battery operation, the CPM 8374 is ideal for mobile use in industrial areas, but it can also be operated in stationary applications thanks to its mains connection. The CPM 8374 is operated using just 2 buttons, is menu-driven and therefore very user-friendly. All set measurement parameters are shown on the two-line LCD display for better orientation. The measured positive and negative discharge times as well as the offset voltage are stored in the internal, non-volatile EEPROM memory and can be read out later via the serial RS 232 interface.

Scope of delivery:

- Charged Plate Monitor CPM 8374B
- Carrying case made of conductive plastic with antistatic foam insert
- Plug-in power supply 230V~ / 50Hz - 12V DC / 750mA
- Earthing cable with tapping terminal
- Operating instructions
- 3 spacers for horizontal measurement
- teflonized measuring cable with tuft plug
- serial PC cable
- KL_ReadOut software
- Calibration certificate

Dimensions	152 mm x 152 mm x 152 mm (L x W x H)
Weight	990 g
Display	Alphanumeric display 2 lines x 16 characters (100mm x 24mm)
PC interface	Serial interface for controlling the device functions and for measured value output (9-pin SUB D socket)
Power supply	Internal with battery block 7.2V / 1300mAh (permanently monitored) Operating time approx. 4 hours continuous operation with full battery, external with power supply 12V DC / 750mA
Charging time	Max. 14h
Power consumption	Approx. 150 mA in battery mode / approx. 600mA in mains mode
Automatic switch-off	If no button has been pressed, approx. 5 min. after end of measurement

Also available as PRORENT rental device.

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