



Profometer Corrosion Potential PM8500

The most complete half-cell solution for rapid on-site mapping of corrosion potential



Productivity

Boost your productivity up to 40 times faster than any other rod electrode on the market using our unique wheel electrodes



Ergonomics

Compact, ultra-light and wireless for comfortable measurements in all types of concrete elements



Onsite Data

Best-in-class app for corrosion assessment with several views for easy data evaluation and interpretation



Profometer App Corrosion Tech Specs

| | |
|-------------------------------|--|
| Display Unit | Any compatible Apple iPad (iOS 11.0 and higher) |
| Export formats | <ul style="list-style-type: none">• JPG (Screenshot)• PNG• CSV• HTML |
| Display Unit Specs*: | <ul style="list-style-type: none">• Latest Apple® iPad recommended (iPad with iOS 11.0 and higher)• Screen size: From 7.9" to 12.9"• Resolution: Up to 2732-by-2048• Memory: Up to 2TB• Weight: Down to 301 g / 10.6 oz• Camera: Up to 12MP Wide and 10MP Ultra Wide• Optional: USB-C, 5G, Face ID |
| Display Unit Sensors*: | <ul style="list-style-type: none">• LiDAR Scanner (optional)• Three-axis gyro• Accelerometer• Ambient light sensor• Barometer• Built-in GPS/GNSS |

* Depending on iPad model iPad is a trademark of Apple Inc.; iOS is a registered trademark of Cisco in the US and is used by Apple under license



Instrument Tech Specs

| | |
|----------------------------------|---|
| Technology | Half Cell Potential |
| Measured Quantity | Corrosion potential in milivolts [mV] |
| Connection | Wireless - Bluetooth |
| Cover Measuring depth | First rebar layer |
| Voltage Measurement Range | -3000mV to +3000mV |
| Resolution | +/-1mV |
| Input Impedance | 100MOhm |
| Encoder Accuracy | +/- 0.5 mm / 0.02 in + 0.78% of measured length Resolution: 3.3 mm / 0.13 in (128 steps / rotation) |
| Max Scanning Speed | 1 m/s - 3.3 ft/s |
| Max Area Scan | 50 x 50 m - 165 x 165 ft |


Dimensions

| | |
|-----------------------------|--|
| Sensor unit | (127 x 59 x 56)mm / (5 x 2.3 x 2.2)in without holder (127 x 98 x 72)mm / (5 x 3.9 x 2.8)in with holder |
| Rod electrode | D= 36mm x 155mm / D=1.4 in x 6.1in with protection-cap |
| One wheel electrode | (194 x 138 x 127)mm / (7.6 x 5.4 x 5)in without telescopic rod (2000 x 138 x 127)mm / (78.7 x 5.4 x 5)in with extended telescopic rod (700 x 138 x 127)mm / (27.6 x 5.4 x 5)in with pulled in telescopic rod |
| Four wheel electrode | (830 x 350 x 140)mm / (32.6 x 13.8 x 5.5)in without telescopic rod (2150 x 830 x 140)mm / (84.6 x 32.6 x 5.5)in with extended telescopic rod (840 x 830 x 140)mm / (32.8 x 32.6 x 5.5)in with pulled in telescopic rod |

Weight

| | |
|---|---|
| Sensor unit | 150g / 0.33 lbs without holder 220g / 0.49 lbs with holder |
| Rod electrode | 120g / 0.26 lbs without cable / without copper sulfate, without Interface-Box |
| One wheel electrode | 2000g / 4.41 lbs without fluid, with interfacebox an telescopic rod + 435g / 0.96 lbs including fluid |
| Four wheel electrode | 6900g / 15.2 lbs without fluid + 435g / 0.96 lbs per wheel including fluid |
| Standard kit (all items including carrying case) | 7400g / 16.3 lbs |
| One wheel kit (all items including cartoon box) | 2900g / 6.39 lbs |
| Four wheel kit (all items including carrying case) | 17660g / 38.93 lbs |
| Battery | 1xAA (NiMH) rechargeable or non rechargeable Removable Flight-safe 8 Hours autonomy USB-C charger |
| Environmental Conditions | Humidity <95% RH, non-condensing Operating temperature: -10°C to +50°C |

Our Accessories

| Image | PartNumber | Description |
|---|------------|---|
|  | 39260330 | Ball joint accessory for the one-wheel electrode to connect to the telescopic rod for more flexible measurements. |

| Standards & Guidelines | Description |
|-------------------------|-------------|
| ASTM C 876-15 | |
| DGZfP B3 | |
| JGJ/T 152 (China) | |
| JSCE E 601 | |
| RILEM TC 154-EMC | |
| SIA 2006 (Switzerland) | |
| UNI 10174 | |
| ОДМ 218.3.001-2010 | |

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