

## **Profometer Corrosion Potential**

## **PM8500**

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



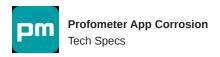




Productivity Ergonomics Onsite Data

Boost your productivity up to 40 times faster than any other rod electrode on the market using our unique wheel electrodes Compact, ultra-light and wireless for comfortable measurements in all types of concrete elements

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



| Display Unit           | Any compatible Apple iPad (iOS 11.0 and higher)   |
|------------------------|---|
| Measurement Modes      | Basic Mode Expert Mode Spot Scan (rod electrode) Line Scan (wheel electrode) Area Scan (wheel electrode) Fixed Grid (rod electrode) Fixible and Variable Grid (Wheel electrodes) Autosave mode (rod electrode) Grid set up (Origin of coordinates; Grid size; Cell size; Direction of measurement; Pattern of measurement) Delete and overwriting information (Cells; Lines; Whole scan) Skipping data (Cells; Lines; Fixed distance) Pause and resume Stop and start |
| Review Modes           | Potential View for displaying a heat map with<br>the potential values     Statistic View - distribution and cumulative<br>graph     Chipping graph view for displaying the<br>corroder areas based on the analysis  |
| Advanced Features      | Support for copper, silver, mercury and SCE calomel electrodes     Temperature correction     Zoom in and out   |
| Calibration Features   | Calibration of length   |
| On-site annotations    | Markers - comments and voice notes     Photos     Geolocation   |
| Reporting              | Cloud connectivity Workspace integration Share via URL Automatic Logbook Raw data export Instant report generation  |
| Export formats         | <ul><li>JPG (Screenshot)</li><li>PNG</li><li>CSV</li><li>HTML</li></ul>   |
| Display Unit Specs*:   | 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*: | LiDAR Scanner (optional) Three-axis gyro Accelerometer Ambient light sensor Barometer Built-in GPS/GNSS a trademark of Annle Inc.: iOS is a registered.   |

<sup>\*</sup> 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

| rech 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<br>length<br>Resolution: 3.3 mm / 0.13 in<br>(128 steps / rotation)   |
| Max Scanning Speed                                 | 1 m/s - 3.3 ft/s   |
| Max Area Scan                                      | 100m x 100m - 328ft x 328ft/s  |
| <u>Dimensions</u>                                  |  |
| Sensor unit  | (127 x 59 x 56)mm / (5 x 2.3 x 2.2)in without holder $(127 \times 98 \times 72)mm / (5 \times 3.9 \times 2.8) in with holder$  |
| 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                               | $(830\times350\times140)mm/(32.6\times13.8\times5.5)in$ without telescopic rod $(2150\times830\times140)mm/(84.6\times32.6\times5.5)in$ with extended telescopic rod $(840\times830\times140)mm/(32.8\times32.6\times5.5)in$ with pulled in telescopic rod |
| <u>Weight</u>                                      |  |
| Sensor unit  | 150g / 0.33 lbs without holder<br>220g / 0.49 lbs with holder  |
| Rod electrode                                      | 120g / 0.26 lbs without cable / without cupper 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<br>+ 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<br>rechargeable<br>Removable<br>Flight-safe<br>8 Hours autonomy<br>USB-C charger   |
|  |  |

Humidity <95% RH, non-condensing

Operating temperature: -10°C to +50°C

**Environmental Conditions** 

| 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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