



## 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

<b>Display Unit</b>	Any compatible Apple iPad (iOS 11.0 and higher)
<b>Measurement Modes</b>	<ul style="list-style-type: none"> <li>• Basic Mode</li> <li>• Expert Mode</li> <li>• Spot Scan (rod electrode)</li> <li>• Line Scan (wheel electrode)</li> <li>• Area Scan (wheel electrode)</li> <li>• Fixed Grid (rod electrode)</li> <li>• Flexible and Variable Grid (Wheel electrodes)</li> <li>• Autosave mode (rod electrode)</li> <li>• Grid set up (Origin of coordinates; Grid size; Cell size; Direction of measurement; Pattern of measurement)</li> <li>• Delete and overwriting information (Cells; Lines; Whole scan)</li> <li>• Skipping data (Cells; Lines; Fixed distance)</li> <li>• Pause and resume</li> <li>• Stop and start</li> </ul>
<b>Review Modes</b>	<ul style="list-style-type: none"> <li>• Potential View for displaying a heat map with the potential values</li> <li>• Statistic View - distribution and cumulative graph</li> <li>• Chipping graph view for displaying the corroder areas based on the analysis</li> </ul>
<b>Advanced Features</b>	<ul style="list-style-type: none"> <li>• Support for copper, silver, mercury and SCE calomel electrodes</li> <li>• Temperature correction</li> <li>• Zoom in and out</li> </ul>
<b>Calibration Features</b>	<ul style="list-style-type: none"> <li>• Calibration of length</li> </ul>
<b>On-site annotations</b>	<ul style="list-style-type: none"> <li>• Markers - comments and voice notes</li> <li>• Photos</li> <li>• Geolocation</li> </ul>
<b>Reporting</b>	<ul style="list-style-type: none"> <li>• Cloud connectivity</li> <li>• Workspace integration</li> <li>• Share via URL</li> <li>• Automatic Logbook</li> <li>• Raw data export</li> <li>• Instant report generation</li> </ul>
<b>Export formats</b>	<ul style="list-style-type: none"> <li>• JPG (Screenshot)</li> <li>• PNG</li> <li>• CSV</li> <li>• HTML</li> </ul>
<b>Display Unit Specs*:</b>	<ul style="list-style-type: none"> <li>• Latest Apple® iPad recommended (iPad with iOS 11.0 and higher)</li> <li>• Screen size: From 7.9" to 12.9"</li> <li>• Resolution: Up to 2732-by-2048</li> <li>• Memory: Up to 2TB</li> <li>• Weight: Down to 301 g / 10.6 oz</li> <li>• Camera: Up to 12MP Wide and 10MP Ultra Wide</li> <li>• Optional: USB-C, 5G, Face ID</li> </ul>
<b>Display Unit Sensors*:</b>	<ul style="list-style-type: none"> <li>• LiDAR Scanner (optional)</li> <li>• Three-axis gyro</li> <li>• Accelerometer</li> <li>• Ambient light sensor</li> <li>• Barometer</li> <li>• Built-in GPS/GNSS</li> </ul>

\* 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

<b>Technology</b>	Half Cell Potential
<b>Measured Quantity</b>	Corrosion potential in millivolts [mV]
<b>Connection</b>	Wireless - Bluetooth
<b>Cover Measuring depth</b>	First rebar layer
<b>Voltage Measurement Range</b>	-3000mV to +3000mV
<b>Resolution</b>	+1mV
<b>Input Impedance</b>	100MOhm
<b>Encoder Accuracy</b>	+/- 0.5 mm / 0.02 in + 0.78% of measured length Resolution: 3.3 mm / 0.13 in (128 steps / rotation)
<b>Max Scanning Speed</b>	1 m/s - 3.3 ft/s
<b>Max Area Scan</b>	50 x 50 m - 165 x 165 ft
<b>Dimensions</b>	
<b>Sensor unit</b>	(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
<b>Rod electrode</b>	D= 36mm x 155mm / D=1.4 in x 6.1in with protection-cap
<b>One wheel electrode</b>	(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
<b>Four wheel electrode</b>	(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
<b>Weight</b>	
<b>Sensor unit</b>	150g / 0.33 lbs without holder 220g / 0.49 lbs with holder
<b>Rod electrode</b>	120g / 0.26 lbs without cable / without copper sulfate, without Interface-Box
<b>One wheel electrode</b>	2000g / 4.41 lbs without fluid, with interfacebox an telescopic rod + 435g / 0.96 lbs including fluid
<b>Four wheel electrode</b>	6900g / 15.2 lbs without fluid + 435g / 0.96 lbs per wheel including fluid
<b>Standard kit (all items including carrying case)</b>	7400g / 16.3 lbs
<b>One wheel kit (all items including cartoon box)</b>	2900g / 6.39 lbs
<b>Four wheel kit (all items including carrying case)</b>	17660g / 38.93 lbs
<b>Battery</b>	1xAA (NiMH) rechargeable or non rechargeable Removable Flight-safe 8 Hours autonomy USB-C charger
<b>Environmental Conditions</b>	Humidity <95% RH, non-condensing Operating temperature: -10°C to +50°C



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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