



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



Display Unit	Any compatible Apple iPad (iOS 11.0 and higher)		
Scanning Options	Scan with a fixed grid or flexible grid Scan horizontally or vertically Scan forwards or negative Return to start for each new line or scan in an S-pattern Select any cell and continue scanning from there Start a scan from any corner Set and maintain zoom level while scanning Skip a preset distance Open a previous scan and continue scanning from any cell		
Export formats	JPG (Screenshot)PNGCSVHTMLDXF		
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		

^{*} 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

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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	100 x 100 m - 330 x 330 ft				
<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	$(830 \times 350 \times 140)mm \ / \ (32.6 \times 13.8 \times 5.5)in$ without telescopic rod $(2150 \times 830 \times 140)mm \ / \ (84.6 \times 32.6 \times 5.5)in$ with extended telescopic rod $(840 \times 830 \times 140)mm \ / \ (32.8 \times 32.6 \times 5.5)in$ with pulled in telescopic rod				
<u>Weight</u>					
Sensor unit	150g / 0.33 lbs without holder 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 + 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				

Humidity <95% RH, non-condensing

Operating temperature: -10°C to +50°C

Environmental Conditions

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	s & Guidelines	Description
ASTM C 87	76-15	
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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