

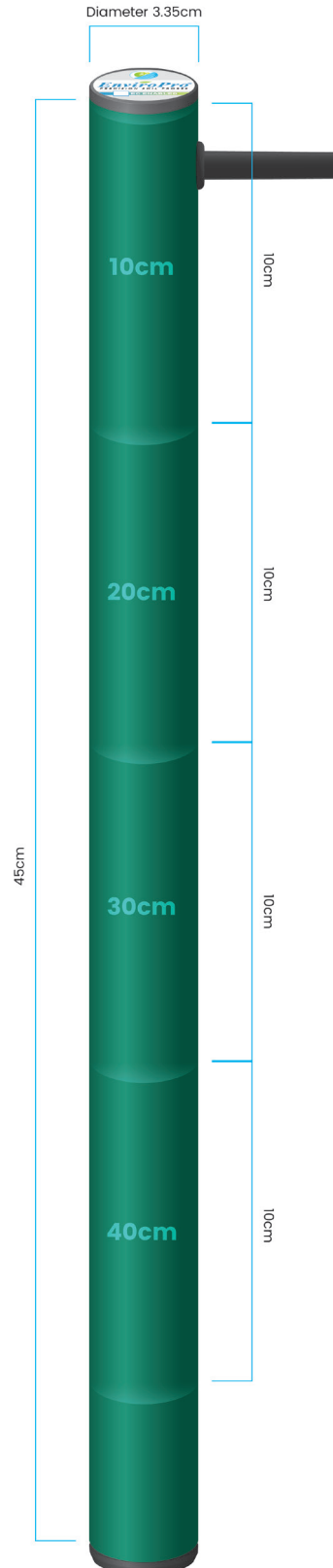


EnviroPro[®]

PRECISION SOIL PROBES

TECHNICAL SPECIFICATIONS

EP100G Series



Models Overview

Model	Moisture Points	Temp	EC	Sensing	Length (cm)
EPI00GL-04	●	●		4	46.5
EPI00GL-08	●	●		8	86.5
EPI00GL-12	●	●		12	126.5
EPI00GL-16	●	●		16	166.5
EPI00G-04	●	●	●	4	46.5
EPI00G-08	●	●	●	8	86.5
EPI00G-12	●	●	●	12	126.5
EPI00G-16	●	●	●	16	166.5

Specifications

Diameter: 33.5mm +/-0.2mm

Field of Influence: 55 mm from wall of probe

EnviroPro® sensitivity (per probe) as a function of sampled volume:

Model	Total Soil Volume Detected
EPI00G(L)-04	6.4 litres
EPI00G(L)-08	12.8 litres
EPI00G(L)-12	19.2 litres
EPI00G(L)-16	25.6 litres

Moisture resolution: 0.01%

Salinity resolution: 0.001 dS/m

Temperature resolution: 0.01 °C

Moisture accuracy: +/- 2% @ 0% VWC to 50% VWC (*with respect to dielectric)

Useable salinity range: 0 to 6 dS/m* (*Upper limit of non-contact capacitance sensors.)

Salinity accuracy: +/- 5% @ 0-4 dS/m at 10%-30% VWC

Temperature accuracy: +/- 1 °C @ 25 °C

Specifications

Units of Measure:

Volumetric Water Content (VWC%)
 Salinity dS/m
 Temperature °C or °F

Interface: SDI-12 version 1.3

Cable length: 5m

Wiring:

Red +7 to +16VDC
 Black 0V
 Blue Data
 Yellow Not connected (reserved for future use)

Power Supply Requirements:

Recommended operating voltage: 7V to 16VDC
 Minimum operating voltage 6VDC **
 Reverse voltage and lightning protected.

Current Consumption										
Model	EPI100G/GL-04		EPI100G/GL-08		EPI100G/GL-12		EPI100G/GL-16			
Sensors	4		8		12		16			
Mode	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Units	
Sleep Current	0.4	0.45	0.8	0.9	1.2	1.35	1.6	1.8	mA	
Idle Current	5	7	10	14	15	21	20	28		
Active current (not sampling)	22	32	27	39	32	46	37	53		
Active current (sampling)	33	72	38	79	43	86	48	93		
Active time	320	380	640	760	960	1140	1280	1520	mS	

**minimum voltage specification conditions: standard EnviroPro® 5m / 16ft cable with single device connected to SDI-12 bus (not tested beyond 25°C). Accuracy of data outside these conditions cannot be guaranteed.

Measurement range: -7 to +60°C

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) the device must accept any interference received, including interference that may cause undesired operation.