

Technical Data

EnviroPro Precision Soil Probes



Soil moisture and temperature

EnviroPro® fully encapsulated Soil Probes are precision multi-function and multi-level sub-surface instruments offering continuous reliable and repeatable monitoring of soil moisture, temperature and salinity (EC)*. With salinity and temperature compensated moisture readings, EnviroPro® soil probes provide accurate data for better crop selection and meaningful irrigation and fertiliser decision-making

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

Model	Total Soil Volume Detected
EnviroPro with 4 Sensors	6.4 litres
EnviroPro with 8 Sensors	12.8 litres
EnviroPro with 12 Sensors	19.2 litres
EnviroPro with 16 Sensors	25.6 litres

Measurement characteristics

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

Units of measure

Volumetric Water Content	VWC%
Salinity	dS/m

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Temperature	°C or °F
Interface:	SDI-12 version 1.3

Electrical characteristics with power consumption within 5,6 to 16VDC:

Model Pro / Lite	Sensors 4
Sleep current	0.45 mA max
Idle current	7 mA max
Active current (not sampling)	32 mA max
Active current (sampling)	72 mA max
Active time / sampling time**	380 ms

Model Pro / Lite	Sensors 8
Sleep current	0.90 mA max
Idle current	14 mA max
Active current (not sampling)	39 mA max
Active current (sampling)	79 mA max
Active time / sampling time**	760 ms

Model Pro / Lite	Sensors 12
Sleep current	1.35 mA max
Idle current	21 mA max
Active current (not sampling)	46 mA max
Active current (sampling)	86 mA max
Active time / sampling time**	1140 ms

Model Pro / Lite	Sensors 16
Sleep current	1.80 mA max
Idle current	28 mA max
Active current (not sampling)	53 mA max
Active current (sampling)	93 mA max
Active time / sampling time**	1520 mA max
** measurement sampling time occurs within the active time period	

Diameter: 33.5mm +/-0.2mm

Field of influence: 55mm from wall of probe

Cable length: 5m