

ADCON SM1 Soil Moisture Sensor

The SM1 soil moisture probe is an extremely flexible system, offering capacitance based measurement of soil moisture plus temperature monitoring.

Available in a variety of lengths, starting with 30cm and ending at 150cm, the SM1 features one soil moisture sensor every 10cm. As installation method both access tube and slurry installation are supported. The sphere of influence of the sensor rings is approx. 10cm in radius around the access tube.



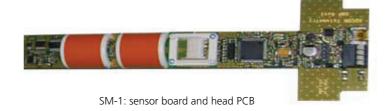
SM-1 view of top cap with connector and access tube

Depending on the length of the sensor up to 5 temperature sensors are available. The 30, 60, 90, 120 and 150cm probes have their first temperature sensor located at 15cm and every additional sensor with a spacing of 30cm, thus at 45, 75, 105 and 135cm respectively.

All signals are delivered through the SDI-12 protocol. To connect a standard 2, 4 or 8m cable the Probe features a 7-pin Binder jack with IP67 rating.

Applications

- Irrigation
- Landfills
- Geological observations



Technical Data

Diameters	Tube 32mm 🔊, Top cap 89mm
Probe lengths	30, 60, 90, 120, 150cm
Cable	Binder cable, not included
Protection class	IP-67
Temperature range	-55°C +70°C
Output signal	SDI-12
Probe material	UV resistant PVC
Connector	7-pin M9 male Binder connector
Power supply	5,6V 12VDC
Soil moisture:	
Measuring range	0 100%
Resolution	0,1%
Accuracy	± 2%
Measuring method	capacitance

Number of sensors	1 sensor every 10cm
Soil temperature:	
Measuring range	-55°C +70°C
Resolution	0,125°C
Accuracy	± 0,5°C (0 70°C)
Temperature sensors	up to 5: one every 30cm; at 15, 45, 75, 105 and 135cm
Ordering:	
200.733.800 200.733.802 200.733.804 200.733.806 200.733.807	Adcon SM-1 30cm 3 sensors Adcon SM-1 60cm 6 sensors Adcon SM-1 90cm 9 sensors Adcon SM-1 150cm 15 sensors Adcon SM-1 120cm 12 sensors
200.800.010 200.800.011 200.800.012	2m cable, shielded, PUR 7-pin 4m cable, shielded, PUR 7-pin 8m cable, shielded, PUR 7-pin



- t +61 2 9894 4511
- sales@aqualab.com.au
- w www.agualab.com.au