

# 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.

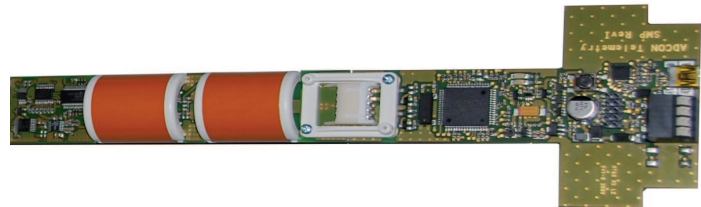
Available in a variety of lengths, starting with 30cm and ending at 150cm, the SM1 features one soil moisture sensor every 10cm. As installation method both access tube and slurry installation are supported. The sphere of influence of the sensor rings is approx. 10cm in radius around the access tube.

Depending on the length of the sensor up to 4 temperature sensors are available. The 30, 60, 90 and 120cm probes have their first temperature sensor located at 15cm and every additional sensor with a spacing of 30cm. The 50, 100 and 150cm probes have temperature sensors at 15, 65, and 115cm.

All signals are delivered through the SDI-12 protocol. A 5m cable is included.

## Anwendungen

- Irrigation
- Landfills
- Geological observations



## Technical Data

Access tube	32mm $\varnothing$	Resolution	0,1%
Top cap	82mm $\varnothing$	Accuracy	$\pm 2\%$
Protection class	IP-67	Measuring method	capacitance
Temperature range	-55°C ... +70°C	Number of sensors	1 sensor every 10cm
Output signal	SDI-12	Soil temperature:	
Cable	5m, Polyethylene (PE)	Measuring range	-55°C ... +70°C
Probe material	UV resistant PVC	Resolution	0,125°C
Connector	7-pin M9 male Binder connector	Accuracy	$\pm 0,5^\circ\text{C}$ (0 .. 70°C)
Power supply	5,6V .. 12VDC	Number of temperature sensors	30,60,90,120cm: 1 every 30cm 50, 100, 150cm: 1 every 50cm
Soil moisture:		Available probe lengths	30, 50, 60, 90, 100, 120, 150cm
Measuring range	0 - 100%		