

Temperature Sensor for Soil, Water and Snow

The Adcon Soil Temperature Sensor is a robust instrument, built for extreme simplicity in installation and operation. The sensor element is embedded into the beveled tip of a 30cm spike. The sensor as a whole, handle, shaft and tip, is made of stainless steel.

The sensor can be installed vertically for measurement at 30cm or at other depths by appropriate setting of the stopper disk. A fully sealed amplifier, embedded into the handle, converts the sensor elements' output into a linear voltage signal.

To protect it from mechanical and rodent damage the first 3m of the attached cable are covered with a stainless steel spiral sheath. A 7-pin Binder connector makes for easy connection to an Adcon RTU.



Applications

- Agricultural Weather Stations
- General Meteorology
- Growth and yield models

Technical data

Dimensions	500mm length	Sensor element	pt100 Cl. B 3-wire
Diameter Spike	6mm	Measuring range	-20°C ... +40°C
Diameter Handle	15mm	Output signal	0 ... 2,5V
Weight	1000 g	Accuracy	± 0,3°C @ 0°C
Mounting	entrench, plunge or dip sensor into media	Power supply	5 ... 8 VDC
Protection class	IP68	Cable & Connector	500cm, M9 male 7-pin, Binder
Material	tip, handle and spike: stainless steel 1.4571	Ordering Information	
Rodent protection	300cm of stainless steel sheath	200.733.040	ST Soil Temperature Sensor