

PRODUCT INFO

PRODUCT NAME

Soil Moisture Sensor - Probe

PRODUCT CODE

SOM-250

PRODUCT CATEGORY

Environmental Sensors

PRODUCT PRICE

Talk with a Serrata Instruments Reseller

APPLICATION GUIDELINES

Soil moisture measurement is crucial for assessing irrigation needs, optimizing water use, and ensuring healthy plant growth. To begin, select the appropriate soil moisture sensor based on your specific requirements, such as soil type, measurement depth, and environmental conditions. Common sensor types include capacitive, resistive, and time-domain reflectometry (TDR) sensors. It's important to calibrate the sensors according to local soil characteristics to ensure accurate readings.



COVERS MOST OF SOIL MOISTURE APPLICATIONS IN AFFORDABLE COST

Once the sensor is calibrated in indicator, install it in the soil at the desired depth, ensuring that it is positioned in a way that minimizes interference from air gaps or excessive moisture. If you are using multiple sensors, consider their placement across the area of interest to obtain representative moisture data. Regularly monitor the sensor readings and compare them against the optimal moisture range for your specific crops or plants to guide irrigation scheduling.

CONTACT US

+49 (0) 211 63 55 32 11 info@serratainstruments.com
Düsseldorf, Germany serratainstruments.com



KEY FEATURES PRODUCT

INTEGRATION AVAILABILITY

- SOM-250 has two versions of data output, as 2 x 4-20 mA Analog Outputs or Rs485 Modbus

ROBUST DESIGN

- Thanks to IP68 design, SOM-250 is suitable to use permanently embedded the underground.

CHARACTERISTIC FEATURES

- Fast Response with less than 1 second, Soil properties effect is little, High Accuracy

APPLICATION USAGE

- Agriculture irrigation, Greenhouse, Grass farming, Environmental Applications

INFORMATION

SOM-250-A

SOM-250-D

Moisture Measuring Range (Typical)	1-100 %	1-100 %
Moisture Accuracy	+/-3% (< 50 %)	+/-3% (< 50 %)
Temperature Range	-30...+70 °C	-30...+70 °C
Temperature Accuracy	+/- 0,5 °C	+/- 0,5 °C
Output Signal	2 x 4-20 mA	Rs485 Modbus
Power	12...24 Vdc	12...24 Vdc
Housing Material and Protection	ABS - IP68	ABS - IP68
Probe Material	316L SS	316L SS
Effective Measurement Area	70mm dia from center of probe and 70mm in vertical	
Cable Length	2 meter	2 meter

CONTACT US

+49 (0) 211 63 55 32 11
info@serratainstruments.com

Düsseldorf, Germany
www.serratainstruments.com