

# MAS-1 4-20 MILLIAMP VOLUME SOIL MOISTURE SENSOR



## ELECTRICAL

INTERFACE	Standard 4-20 mA analog transmitter
SUPPLY VOLTAGE	12-32 VDC continuous
OUTPUT CURRENT	4 - 20 mA
OVERVOLTAGE PROTECTION	Yes
SETTLING TIME	4 seconds
WIRING	Red Wire: (+) supply Black Wire: (-) output Shield: not connected

## MEASUREMENT

TYPE	Volumetric water content (VWC)
RANGE	0-100% VWC typical
RESOLUTION	Depends on current measurement (data acquisition) device
ACCURACY	±6% VWC with generic calibration for supported growing media up to 65% VWC, above which accuracy lessens. Increased accuracy can be achieved with a medium-specific calibration.
OUTPUT	4-20 mA current proportional to VWC
SENSOR MEASUREMENT INTERVAL	1 second
OPERATING ENVIRONMENT TEMPERATURE	-40 to 60°C* *Sensors can be used at higher temperatures under some conditions. Contact Decagon for more details.
PHYSICAL PROPERTIES DIMENSIONS	8.9 cm x 1.8 cm x 0.7 cm
CABLE	2 m or 5 m, 3 wire (22 AWG tinned Red and Black wire, 24 AWG tinned bare wire); custom cable length available upon request.