

EC-5 SOIL MOISTURE SENSOR



ACCURACY	Mineral Soil: ±3% VWC, most mineral soils, up to 8 dS/m ±1-2% VWC with soil specific calibration Rockwool: ±3% VWC, 0.5 to 8 dS/m Potting Soil: ±3% VWC, 3 to 14 dS/m
RESOLUTION	0.1% VWC (mineral soil) 0.25% VWC (rockwool)
RANGE	calibration dependant; up to 0-100% VWC with polynomial equation
DIMENSIONS	8.9 x 1.8 x 0.7 cm
CABLE LENGTH	5 m, custom cable lengths available upon request
MEASUREMENT TIME	10 ms
POWER	2.5 - 3.6 V DC @ 10 mA. Output proportional to input voltage. 2.5 V and 3 V excitations supported with calibration equations
OUTPUT	Voltage, correlated linearly (soil) or polynomially (growing media) with VWC
TEMPERATURE	-40°C to +50°C
CONNECTOR TYPES	3.5 mm "stereo" plug or stripped and tinned lead wires (3)
DATALOGGER COMPATIBILITY (NOT EXCLUSIVE)	Decagon: Em50 series loggers, ProCheck, ECH ₂ O Check, Em5b Campbell Scientific: CR10X, 21X, 23X, CR1000, CR3000, etc. Other: Any data acquisition system capable of switched 2.5 to 3.6 V excitation and single ended voltage measurement at 12 bit or better resolution.
WARRANTY	One year, parts and labor

