

MPS-2 DIELECTRIC WATER POTENTIAL



ACCURACY	Soil Water Potential: $\pm 25\%$ of reading from -10 kPa to -100 kPa, see user manual for more details on accuracy Soil Temperature: $\pm 1^\circ\text{C}$
RESOLUTION	Soil Water Potential: 0.1 kPa Soil Temperature: 0.1 $^\circ\text{C}$
RANGE	Soil Water Potential: -10 to -500 kPa (pF 1.71 to pF 3.71) Soil Temperature: -40 $^\circ\text{C}$ to 50 $^\circ\text{C}$
MEASUREMENT SPEED	150 ms (milliseconds)
EQUILIBRATION TIME	10 min to 1 hr depending on soil water potential
SENSOR TYPE	Frequency domain with calibrated ceramic discs, thermistor
OUTPUT	RS232 (TTL) with 3.6 volt levels or SDI-12 communication protocol
OPERATING ENVIRONMENT	-40 $^\circ\text{C}$ to 50 $^\circ\text{C}$
POWER	3.6 - 15 VDC, 0.03 mA quiescent, 10 mA max during 150 ms measurement
CABLE LENGTH	5 m, custom cable lengths available
CABLE CONNECTOR TYPES	3.5 mm "stereo" plug or stripped and tinned lead wires (3)
SENSOR DIMENSIONS	9.6 cm (l) x 3.5 cm (w) x 1.5 cm (d)
DATA LOGGER COMPATIBILITY (NOT EXCLUSIVE)	Decagon: Em50, Em50R, Em50G, ProCheck Campbell Scientific: Any logger with serial I/O including CR10X, CR23X, any CRBasic type logger (CR850, 1000, 3000, etc.) Other: Any data acquisition system capable of 3.6 - 15 V excitation and serial or SDI-12 communication
WARRANTY	One year, parts and labor