



MPS-6 Calibrated Water Potential Sensor

IM5041D

SAR19

ECH-GS1

ECH500

ECH510

ECH5TM

ECH5TE

ECH512

MD510SM

GS3

TNS103..7

AQ600

100SMT

SEN12512 SEN13512

ECH870EXT

ECH871EXT

ECH874EXT

WM-BUS

TNS100



ECH512

The MPS-6 is a matrix water potential sensor that provides long term, maintenance-free soil water potential and temperature readings at any depth without sensitivity to salts. The range of the MPS-6 goes from field capacity to air dry. Lab and field tests indicate that it can make accurate measurements at water potentials at least as dry as permanent wilting point.

Accuracy Soil Water Potential Soil Temperature	±(10% + 2 kPa) from -9 to -100 kPa ± 1°C
Resolution Soil Water Potential Soil Temperature	0.1 kPa 0.1°C
Range Soil Water Potential Soil Temperature	-9 to -100,000 kPa-40° to 60°C -40° to 60°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° to 60°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
Sensor Dimensions	9.6 cm (l) x 3.5 cm (w) x 1.5 cm (d)
Part.no. ECH512	Decagon MPS6 water potential sensor
Interface	Necessary Interface to connect this sensor with iMetos ECH870EXT / ECH871EXT / ECH874EXT or ECH870INT / ECH871INT/ ECH874INT

