

SPECIFICATIONS

Channels:

1 Channel

Power Requirements:

4 AA batteries

Storage:

5000 readings (1 MB)

Communication:

Serial RS232

Case:

15.5 x 9.5 x 3.3 cm
Splash-proof case
(NEMA 1, IP20)

Measurement Speed:

Less than 1 s

Warranty:

One year parts and labor

Operational

Environment:

-5 to 50°C

Compliance:

CE

ProCheck

The hand-held ProCheck gives a read-out and stores the reading from any of Decagon's soil moisture or environmental sensors. When using the ProCheck to read soil moisture sensors, choose from a list of supplied factory calibrations (both soil and artificial media) or input another calibration. Data stored can be downloaded in EXCEL format using the included software.

Decagon's ProCheck instantaneously displays calibrated readings of any Decagon soil moisture or environmental sensor.

The ProCheck is also useful when installing and troubleshooting sensors used with the ECH₂O loggers.



Features:

- Portable measurement of all Decagon's sensors*
- Applies pre-set calibrations (when necessary) to readings in real-time
- Stores readings with time, date, sensor type, calibration, and comments
- Downloads data to PC (free software provided)
- Battery-operated

* Note: The ProCheck will not download data from the Em50 or Em5b loggers, that still must be done via connection to a computer.



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Compatible Sensors

Soil Moisture Sensors

The ProCheck supports the ECH₂O volumetric water content sensor in both soil and different types of growth media. The following table lists the supported calibrations for each type of sensor.

Sensor	Type	Supported Medium Calibrations	Units
EC-20	Soil Moisture	Mineral, Custom	m ³ /m ³
EC-5	Soil Moisture	Mineral, Potting, Rockwool, Perlite, Custom	m ³ /m ³
ECH ₂ O-TE	Moisture, Temp, EC	Mineral, Potting, Rockwool, Perlite, Custom	m ³ /m ³ + °C
EC-TM	Moisture, Temp	Mineral, Potting, Rockwool, Perlite, Custom	m ³ /m ³ + °C + Bulk dS/m
10 HS	Soil Moisture	Mineral, Custom	m ³ /m ³

Environment Sensors

The ProCheck is also compatible with the following ECH₂O environmental sensors:

Sensor	Type	Units
MPS-1	Water Potential	kPa
ECT	Temperature	°C
PYR	Solar Radiation	Wm ²
QSO-S PAR	Photon Flux	μmol/m ² /sec
Millivolt		mV
EHT	RH/TEMP (Relative humidity and temperature)	RH + °C

Rain Guage Sensors

The ProCheck will count tips from the following rain guage sensors. This is helpful for troubleshooting rain guage problems:

Sensor	Type	Units
ECRN-100	Precipitation	mm

Special Sensors

The following sensors are treated as special cases for the Procheck. When an ECH₂O logger measures these sensors, it uses a time-series date to make each measurement. The ProCheck can only take instantaneous measurements so the data measured by the ProCheck is different from a logger.

Sensor	Type
G1	Drain Guage shows the percent full of the tip reservoir
ELW	Leaf Wetness shows the wetness status

Decagon designed the ProCheck to provide a simple measurement interface for the ECH₂O soil moisture sensor family. You can easily make and record instantaneous sensor measurements with the ProCheck.

The ProCheck is also useful when installing and troubleshooting sensors used with the ECH₂O loggers. For this reason, the ProCheck will measure all the sensors used in the ECH₂O system.

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