



# WATER & SOIL

## Low Cost Soil Moisture Sensors

- For Soil Water Potential
- Gypsum Block sensors for short term projects
- Watermark sensors for longer installations
- Ideal for monitoring trends in soil moisture
- Low cost, suitable for multiple point measurements
- Interface available for DataHog dataloggers



Soil water potential or soil suction is a measurement of the amount of moisture in the soil (or growing medium) which is freely available for use by crops and plants. This is a far more useful measurement in horticulture and agriculture than is the percentage of soil moisture, as not all soil water is accessible to plant roots.

The Gypsum Block and WaterMark sensors measure electrical resistance (conductivity) of the soil which can be calibrated and converted into soil water potential readings. Both are low cost sensors ideal for larger, multiple point installations. These sensors require no maintenance once installed.

Gypsum Block sensors measure even the driest of soils, but tend to have a lifetime of

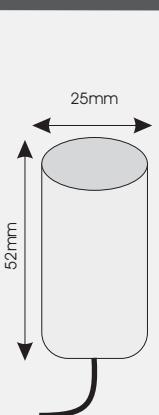
just 1 or 2 seasons. WaterMark sensors are more durable, they consist of a granular matrix contained in a stainless steel casing and are more suited to irrigated soil measurements.

Skye offer a complete range of soil moisture measurement sensors including tensiometers and ECH<sub>2</sub>O probes. Sensors used with the DataHog loggers are a useful tool for automatically monitoring soil moisture in all conditions, wet or dry.

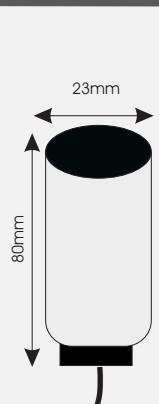
Automatic irrigation triggering is also available with the addition of relay outputs to the DataHogs.



## GYPSUM BLOCK SPECIFICATIONS

Dimensions	Weight	Working Range	Soil Salinity	Output	Power Supply	Operating Range
	60g	500-15,000 hPa soil suction	Recommended for soils of pH 4.5 or higher	0-2V = 0-2,000hPa with DataHog interface (other ranges available)	5V (available from DataHog)	0-80°C

## WATERMARK SPECIFICATIONS

Dimensions	Weight	Working Range	Soil Salinity	Output	Power Supply	Operating Range
	100g	0-2,000 hPa soil suction	Soil salinity compensated. Suitable for any soil type	0-2V = 0-2,000hPa with DataHog interface	5V (available from DataHog)	0-80°C

## ORDERING INFORMATION

### Gypsum Block Sensor

GYPSUM                   Gypsum Block Sensor with 3m cable

GYPSUM/I               Gypsum Block Sensor with 3m cable and DataHog interface and connector

### WaterMark Sensor

WMARK                   WaterMark Sensor with 3m cable

WMARK/I               WaterMark Sensor with 3m cable and DataHog interface and connector

### Loggers

SDL 5000 Series       DataHog loggers

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