



WATER & SOIL

ECH₂O Probes



Measures soil moisture content



Ranges from fully saturated to completely dry soils



Suitable for most growing mediums



Ideal for irrigation management



Robust and low cost



A new addition to Skye's soil moisture measurement range, the ECH₂O probes allow the water content to be measured over the full moisture range from saturated and waterlogged soils to completely dry growing media.

The ECH₂O soil moisture probes are low cost, robust and easy to install. They measure the dielectric constant of the soil and record its volumetric water content as a percentage.

The probe comes in a choice of 2 lengths to suit most applications, 10cms or 20cms.

The new design technology of the ECH₂O probe contains circuitry to minimise the


effects of temperature variation and a coating to minimise salinity effects.

Up to 16 ECH₂O probes can be connected via an electronic interface to a Skye DataHog2 datalogger. This can provide a low cost, automatic soil moisture sampling system covering a wider area than may be economical with more expensive sensors.

The soil moisture monitoring system can be even further extended by adding relay outputs to the DataHog logger which will automatically trigger irrigation according to levels of soil moisture content readings from the ECH₂O probes.



SPECIFICATIONS

Dimensions	Range	Accuracy	Resolution
 <p>10cms or 20cms 3cm</p>	Zero to saturated volumetric water content	±3% typical, ±1% with soil specific calibration	0.001 m ³ /m ³
Output	Power Requirement	Operating Temperature	
250 - 1000mV proportional to volumetric water content	2.5 VDC @ 3mA	0 - 50°C	

ORDERING INFORMATION

ECH₂O Probes

ECH ₂ O-10	10cm ECH ₂ O probe with 3m cable
ECH ₂ O-10/I	10cm ECH ₂ O probe with 3m cable and DataHog interface and connector
ECH ₂ O-20	20cm ECH ₂ O probe with 3m cable
ECH ₂ O-20/I	20cm ECH ₂ O probe with 3m cable and DataHog interface and connector

Loggers

SDL 5000 Series	DataHog loggers
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