



WATER & SOIL

HydroSense Logging Meter



Accepts inputs from Skye's electronic or septum (needle) tensiometers, or other manufacturer's products.



Also accepts inputs from water level pressure sensors, tipping bucket raingauges and Skye thermistor temperature probes.



Readout mode - displays measurements from sensor currently plugged in.



Record mode - stores displayed measurements in memory.



Log mode - logs sensor readings at user set intervals.



1200 recording / logging datapoints, including date, time, and sensor location



Holds calibration parameters for up to 100 sensors.



Clear 32 character, alphanumeric liquid crystal display.



Waterproof, 15 digit keypad with audible key press.



Real time clock and conventional calendar - correct even when main batteries are flat or absent.



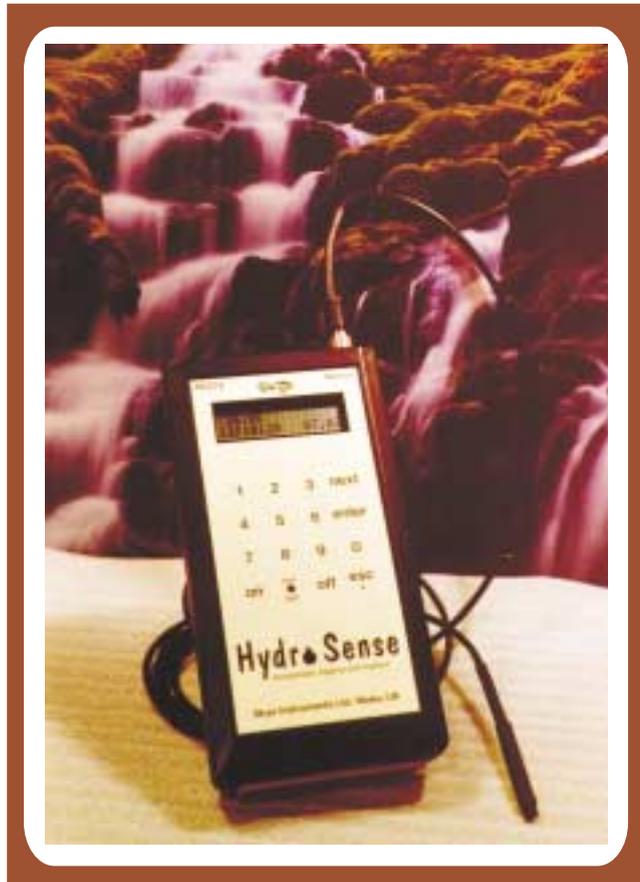
Battery powered - uses 4 'AA' pencils, standard alkaline or rechargeable.



Free Windows software and datalead to offload ASCII files



Low battery warning indicator.



The HydroSense meter is a versatile logging display meter for hydrology applications. It will display and store measurements from soil moisture tensiometers, soil / water temperature probes, water level probes and raingauges.

In display / record mode the measurement is stored in memory by a simple key press. In log mode the measurements are stored at user set intervals or events in the case of a raingauge.

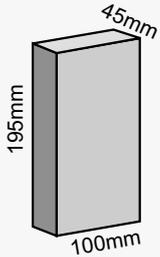
There are two input sockets on the HydroSense meter, one 2-channel input for a tensiometer or water level sensor plus a temperature probe, the second doubles up as the raingauge input or the RS232 communication port.

Each measurement is stored in memory with real time and date, plus sensor details including a 'text' label. This is very useful if the HydroSense meter is used to take spot measurements from sensors at different locations. Data can be later downloaded to a PC in ASCII format suitable for printing in Word, Excel or similar.

The HydroSense is housed in a robust, ABS enclosure sealed to IP65. It has versatility suitable for many water or irrigation applications in agriculture and horticulture. It is also very easy to use - a design feature kept prominent in all Skye Instruments products.



SPECIFICATIONS

Dimensions	Construction	Weight	Keypad	Display
	Black ABS, sealed to IP65	Approximately 700g	15 keys - 0-9, next, enter, *, on, off. Audible key press	16 x 2 line, alphanumeric liquid crystal display
Sensor inputs	Connections	Modes	Memory	Clock
a) tensiometer or water level sensor - pressure transducer etc. b) 10k thermistor temperature sensor c) rainguage (switch closure)	Binder sub-miniature, 8 and 5 pin. Sealed to IP65 when mated with plug or blanking unit	a) Readout mode - instant readout of plugged in sensors and recording of readings on demand b) Log mode - regular logging periods of 1,2,5,10,20 and 30 mins, 1,2 hrs, logging at rainguage event c) Calibration mode - sets clock, sets sensor identification and calibration parameters, checks battery voltage, keypad test d) Memory function mode - offload data, clear memory	Storage in lithium battery backed RAM - capacity for 1200 readings of date, time and 2 channels. Data and calibration factors protected for more than 3 years in absence of main batteries. Lithium battery is user replaceable.	Real time clock powered by internal lithium battery, ability to synchronise readings between several HydroSense meters. Will keep time without the main batteries.
Resolution	Basic accuracy	Power	Battery life	Temperature range
1 part in 15,000, i.e. Better than 0.06 hPa, better than 0.01°	Typically better than 0.1%	4 x 'AA' Pencil cells	In readout mode - standard or rechargeable batteries approx. Life 60 hours, alkaline batteries - approx life 120hr. In log mode battery life is many times greater depending on the interval selected. Rechargeable batteries can be charged in situ.	-20°C to +70°C

ORDERING INFORMATION

Meter

SKT 660

HydroSense logging meter

Sensors

SKT 600/I series
 SKTM 650/I series
 SKT 670
 SKTS 200/I series
 SKPS 1830/I
 ARG 100/I

Electronic tensiometers
 Mini Electronic tensiometers
 Needle sensor
 Temperature probe
 Water level sensor
 Rainguage

Accessories

SBR 1240
 SBR 1230

Battery charger
 Set of 4 rechargeable batteries

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