



The Helios Range

An exciting new development from Skye.
A series of dedicated low-cost systems for
Horticulturalists, Agronomists and Growers

HeliosMini

-  Dedicated sensors for RH, Air temperature, leaf wetness, rainfall, for direct input to DSS, Disease/Yield Prediction Softwares
-  High specification RH sensor - no compromise made - designed to withstand condensation, freezing and rapid recovery from saturation
-  Each system shipped with individual calibration file
RH and Air temperature sensors fully recalibrateable or replaceable
-  Expandable storage memory
-  6 months battery life.
-  Real-time clock. No re-setting of clock when changing batteries
-  Compact - ideal for placing in a crop
-  Corrosion-free leaf wetness design
-  Weatherproof Housing
-  Fast offload to PC - cable & software supplied as part of the system
-  Configurable logging times
-  Self-contained unit, internal battery, supplied assembled, wired & 'ready-to-go' with Windows software
-  Fully serviceable systems, designed to be used for many seasons



Skye have been designing and manufacturing sensors and systems for botanists, agronomists, horticulturalists and researchers since 1983. We have gained a worthy reputation for high quality, robust instrumentation and service for our products as well as for our friendly and helpful customer support. Our popular full specification MiniMet weather station has been selling world-wide for over 8 years.

We have a policy of continual improvement and we try to remain in touch with market needs. To this end we have introduced a new family of low cost logging systems specially designed for research and monitoring the weather conditions which can affect and influence crop growth.

The HeliosMini offers a choice of 4 sensors. Choose from RH, Air Temperature, Leaf Wetness, Rainfall and Soil Temperature. Skye considers RH measurement to be a very critical input for many software systems. Errors here can result in incorrect disease trigger points. We have therefore decided only to employ a high grade sensor in all of our systems. A sensor which is fully intended for outdoor exposure, that will withstand repeated condensation and freezing with fast recovery and minimal drift



SPECIFICATIONS

Housing	Mounting	Memory	Logging Intervals	Communications	Data	
Grey ABS - Sealed to IP65. Includes solar radiation screen	Bracket provided for mast, boom or wall mounting	5000 datapoints (e.g. 14.8 weeks logging at 30 minute intervals) 1 datapoint contains date, time plus a reading from each sensor	1, 5, 10, 15, 20, 30, 60, 120 minutes (default setting 30 minutes)	RS232 - will communicate with any PC. Windows software provided free of charge with each logger. Fast offload to save power. Logging interval setup and battery check at the click of a mouse	Offloaded files are available as standard ASCII format that can be used with most analysis software, 'Excel', etc. Compatible with Decision Support Software	
Power	Clock	Inputs	Air Temperature	Relative Humidity	Rainfall	Leaf Wetness
Internal battery life typically up to 6 months with Lithium battery. Standard alkaline battery will provide power for up to 10-12weeks. Optional external power via solar power or 12 volt battery	Real time year, month, date time clock enabling automatic synchronisation of several units. Clock backed by separate Lithium battery - no need to re-set when changing main batteries	Maximum of four - choose between air temperature, relative humidity, leaf wetness, rain and soil temperature.	Range -55° to +90°C. Resolution 0.06°C. Typical Accuracy better than 0.2°C over -10 to +85°C. Maximum error 0.5°C. Housed in solar radiation shield.	Proven reliable capacitive system. True range 0-100%. Accuracy $\pm 2\%$ over whole range 0-100% RH. Resolution 0.025%. Rapid recovery from condensation	Tipping bucket raingauge (0.25mm rain event). Interrupt driven	Wetness indication as a continuous scale between dry and wet. User selectable sensitivity

ORDERING INFORMATION

The Helios Range

SHL 3000	HeliosMini datalogger with RH & Air Temperature sensors, radiation screen and pole mount
SHL 3001	HeliosMini datalogger with RH, Air Temperature and Leaf Wetness sensors, radiation screen and pole mount
SHL 3002	HeliosMini datalogger with RH, Air Temperature and Leaf Wetness sensors and a Raingauge, radiation screen and pole mount
SHL 3003	HeliosMini datalogger with RH, Air Temperature, and Soil Temperature sensors and a Raingauge, radiation screen and pole mount
ACC/11A-1	1 metre mast - pole only

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