



Product Overview

The AX-Weather Station is an integrated unit that accepts the signals from a number of sensors and can either/or display them in a display unit or output the signals via a datalogger/output module. The unit can include wind speed, wind direction, sun hours, rain sensor, wet and dry bulb temperature and relative humidity

Features

- Integrated Weather Station
- Wind Speed and Direction Sensor
- Sun Hours Sensor
- Rain Gauge Sensor
- Wet and Dry Bulb Temperature Sensor
- Relative Humidity Sensor
- Datalogger option
- Analogue style display case
- Damped output for a stable control signal

Product Specifications

DISPLAY UNIT

Size: 687 wide x 342mm high x 70mm deep

DISPLAY PARAMETERS

Wind direction: Analogue read-out 4 cardinal points sub-divided into 5 degree increments, electronically damped.

Accuracy: ± 10 degrees, resolution > 10 degrees

Wind speed: Analogue read-out with gust indicator pointer, calibrated 0-90 mph, 0-80 knots and Beaufort scale.

Alternative kph and metres/second scales are available (see Model Numbers)

Accuracy: $\pm 5\%$ or 3 knots

Barometer: Analogue read-out with set pointer reset, range 950 -1050 mBar (28 -31 inches Hg)

Temperature: LCD digital read-out in degrees F or C, max/min selectable via push buttons

Range - 40 to + 50° C (- 40 to + 120° F), resolution 0.1° C

Rainfall: LCD digital read-out in 0.01mm increments

Accuracy: $\pm 5\%$ (5ml of water = 1mm rainfall), resolution 0.01mm auto-sensing

Sunshine duration: LCD digital read-out in 0.01 hour increments

Accuracy: $\pm 5\%$, resolution 0.01 hours (36 seconds)

Wet & dry bulb (Auxiliary temperature): LCD digital read-out with humidity sensor fitted with radiation screen.

Relative Humidity and dew point readings are taken from chart provided.

SENSORS

Roof-mounted wind speed and direction sensor, temperature sensor, sunshine duration sensor with mounting clamps for easy installation on mast diameter 25 – 50mm. Remaining sensors wall or post mounted (see installation details with product) Data cable length: 25m standard pre-wired (additional cable lengths are available when ordering).

Materials: sensor assemblies utilise anodised aluminium alloy, stainless steel, nylon, injection moulded polypropylene anemometer cups.

Compass provided to align wind sensor arm to North and sunshine sensor to South.

POWER SUPPLY

220 – 240Vac 50Hz or 110Vac 60Hz moulded plug-in power supply unit. Alternative 12Vdc may be Customer supplied.

OPTIONAL EXTRAS

Gust alarm: Audible alarm set to adjustable maximum

Wind speed x 2: Facility to double recording scale (used for exposed sites)

Met4Net 'S' Data logger Part No. 354 0000 001: to PC RS232 serial port connectivity or via USB serial port adaptor cable (separately purchased from Instromet Ltd. Part No. 269 1002 001)

Software: MeT-LoG 98 bespoke software for data recording (not compatible with Windows XP) only available while stocks last.

Met4Net™ bespoke software for data recording Part No. 356 0000 001.

Mounting Kits: Aluminium masts 36" long x 1½" diameter

Mast couplers for joining two masts i.e.6' Part No. 480 1000 096

Wall bracket with mast clamps or Roof/slate mounted mast kit for non-chimney dwellings Part No. 480 1000 097

Autostation: Automatic Weather Station & Met4Net™ software Part No. 355 0000 001/002/003 for 240V/110V/220V respectively.

ORDER CODES

AX-Weather

480 1000 046

480 1000 045

480 1000 039

480 1000 042

480 1000 040

Option

354 1000 001

480 1000 096

356 1000 001

355 1000 001

Weather Station Display Case c/w

Junction box & 5m cable c/w connectors to Display

Wind speed & direction indicator & 25m cable

Sun Sensor & 25m cable

Wet & dry bulb temperature sensor in radiation shield & 25m cable

Rainfall sensor & 25m cable

Met4 Net Datalogger with RS 232 output

Aluminium Mast Mounting Kit 3ft x 1 1/2" aluminium

Met4 Net bespoke software for data recording

Automatic Weather station & Met4Net software for 240Vac