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: ± 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: ± 5% (5ml of water = 1mm rainfall), resolution 0.01mm auto-sensing

Sunshine duration: LCD digital read-out in 0.01 hour increments
  Accuracy: ± 5%, resolution 0.01 hours (36 seconds)

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.
AX-Weather
Weather Station

Wall or mast mount away from heater or air conditioner outlets. Avoid mounting over flat roof edges which may radiate heat in sunny weather. Ensure easy access to top up bottle with distilled water when required.

Every effort has been taken in the production of this data sheet to ensure its accuracy. Axio can not, however, accept responsibility for any damage, expense, injury, loss or consequential loss resulting from any errors or omissions. Axio has a policy of continuous improvement and reserves the right to change this specification without notice.
**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**

<table>
<thead>
<tr>
<th>AX-Weather</th>
<th>Weather Station Display Case c/w Junction box &amp; 5m cable c/w connectors to Display Wind speed &amp; direction indicator &amp; 25m cable Sun Sensor &amp; 25m cable Wet &amp; dry bulb temperature sensor in radiation shield &amp; 25m cable Rainfall sensor &amp; 25m cable</th>
<th>480 1000 046</th>
<th>480 1000 045</th>
<th>480 1000 039</th>
<th>480 1000 042</th>
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<tr>
<td>Option</td>
<td>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 &amp; Met4Net software for 240Vac</td>
<td>354 1000 001</td>
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