MetPak™
Weather Station
6 Reference Quality Parameters

Key Features

- Wind Speed & Direction
- Temperature
- Humidity
- Barometric Pressure
- Dew Point
- Rugged, Professional Design

MetPak weather station utilises Gill WindSonic ultrasonic technology, a highly accurate barometric pressure sensor and a Rotronic Hygroclip HC2-S3-GI temperature/humidity probe.

The design of the MetPak allows measurements to be as accurate as possible without influencing other measured parameters yet provides a compact, reference quality system. The unit is especially suitable for harsh or marine environments and is supplied with selectable Gill ASCII, NMEA SDI-12 and Modbus outputs.

Base Station Options Available
MetPak can be configured with a remote wind sensor. See page 3 for all wind sensor options.

MetPak

Included:
- MetSet configuration software
- MetView data logging/visualisation software
- Mounting kit to adapt to poles or masts
- Selectable ASCII, NMEA, SDI-12 or Modbus Outputs

Optional:
- Heater Interface Box
  Ease of connection for remote heated wind sensors.
- Cables
MetPak integrates industry leading products in a convenient, economical package allowing users to concentrate on the measurement rather than the quality of the measurement. Calibration services available from Gill.

**Specifications may be subject to change without prior notice.**

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### Wind Measurement

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Wind speed &amp; direction or U &amp; V (Vectors)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Units of measure</td>
<td>m/s, knots, mph, kph, ft/min</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Wind Speed</th>
<th>Wind Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>0-60m/s (134 mph)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±2% @12m/s</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.01m/s (0.02 mph)</td>
</tr>
</tbody>
</table>

### Air Temperature

- **Air temperature**: Pt100 1/3 Class B
- **Range**: -50°C to +100°C
- **Accuracy**: ±0.1°C
- **Resolution**: 0.1°C (0.1°F)
- **Units of measure**: °C or °F

### Relative Humidity

- **Range**: 0-100% RH
- **Accuracy**: ±0.8% @ 23°C
- **Resolution**: 0.1% RH
- **Units of measure**: % RH

### Barometric Pressure

- **Range**: 600-1100hPa
- **Accuracy**: ±0.5hPa
- **Resolution**: 0.1hPa
- **Units of measure**: hPa, mbar, mmHg, inHg

### Dew Point

- **Resolution**: 0.1°C (0.1°F)
- **Units of measure**: °C or °F
- **Accuracy**: ±0.15°C (23°C ambient temp @ 20°C dewpoint)

### Power Supply

<table>
<thead>
<tr>
<th>Input voltage</th>
<th>5V to 30V**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>&lt; 16mA (Output 1 second) @12 V</td>
</tr>
</tbody>
</table>

### Outputs

- **SDI-12**
  - **Input voltage**: 12V nominal (9.6-16 V)
  - **Current**: < 6.5mA Low power operation
- **Digital outputs**: RS232, RS422, RS485*, SDI-12 or Modbus1 (user selectable)
  - * 2 wire point to point
- **Baud rates**: 4800-57600 (ASCII) or 1200 (SDI-12)
- **Protocols**: ASCII, SDI-12 V 1.3, NMEA 0183, Modbus (RTU and ASCII)
- **Data output**: 1s, 2s, 4s or polled mode

### Environmental

- **Protection class**: IP65
- **EMC**: EN 61326
- **Operating temperature**: -35°C to +70°C
- **Storage temperature**: -40°C to +80°C
- **Operating humidity**: 0% to 100% humidity

### Mechanical

- **External construction**: UV stabilised white thermoplastic
- **Fittings**: Anodised Aluminium bracket to allow fitting to 30mm to 58mm mast dimensions
- **Weight**: 2.1kg (including bracket)

### Software

- **MetView**: Free software for the display of data and logging
- **MetSet**: Free software for the configuration of the MetPack, MetPack RG & MetPack Pro

### Optional Accessories

<table>
<thead>
<tr>
<th>Cables</th>
<th>15m Power &amp; Data cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware</td>
<td>Heater Interface Box</td>
</tr>
</tbody>
</table>

**For Base Station please check the individual anemometer datasheets**
**Base Station**

MetPak is available as a Base Station which enables the system to be specified with a remote wind sensor if required. This sensor can be positioned away from the Base Station and a connection cable is provided.

The Base Station has been tested in accordance with BSEN 60945 and is suitable for use in marine environments. This system can also be specified without a wind sensor if wind measurement data is not required.

MetPak can be specified with a remote sensor from any of the options shown below:

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**Wind Sensor Options**

- **WindSonic™**
  - For wind speed and direction measurements to 75 m/s. Corrosion free, polycarbonate housing.

- **WindSonic™M**
  - Wind speed and direction measurements to 60 m/s with heating and impact resistant to UL2218 Class 1 & BSEN 60945.

- **WindObserver™**
  - With enhanced heating and wind measurements up to 90 m/s for extreme conditions.

- **WindMaster™**
  - Three dimensional wind measurements up to 45 m/s in a lightweight carbon fibre/aluminium construction.

- **WindMaster™ PRO**
  - Three dimensional wind measurement up to 65 m/s in a stainless steel housing.

Output rate from the wind sensors is controlled by the Base Station.
Product options may be model specific. Consult the Gill sales team for availability.

Product Code

- A = Base Station 2-axis
- B = Integrated WindSonic
- C = Base Station 3-axis

1 = No Heating
2 = Standard Heating
3 = Enhanced Heating

- 1 = No Sensor Fitted
- 2 = WindSonic
- 3 = WindSonic M
- 4 = WindObserver 70
- 5 = WindMaster
- 6 = WindMaster Pro
- 7 = WindSonic 75
- 8 = WindObserver 75
- 9 = WindObserver 90

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1 = MetPak
2 = MetPak Pro
3 = MetPak RG

Special Additional Features
- 11 = Not Applicable
- 12 = ARG Rain Gauge
- 31 = Modbus
- 32 = Modbus with ARG

RS232 ASCII for configuration only with Modbus option.