MetPak™

Weather Station

6 Reference Quality Parameters

Key Features

Wind Speed & Direction

Barometric Pressure

Temperature

Dew Point

Humidity

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.

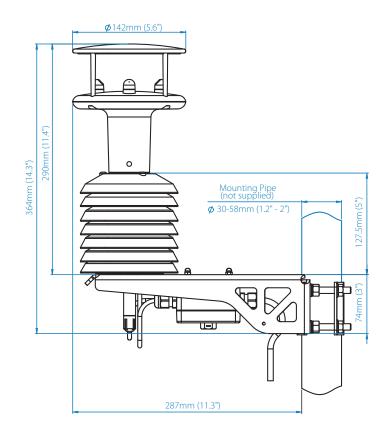


Base Station Options Available

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

Technical Specifications



WIND MEASUREMENT

Parameters	Wind speed & direction or U & V (Vectors)
Units of measure	m/s, knots, mph, kph, ft/min

	WIND SPEED	WIND DIRECTION
Range	0-60m/s (134 mph)	0 to 359° - No dead band
Accuracy	±2% @12m/s	±3° @12m/s
Resolution	0.01m/s (0.02 mph)	1°

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
Compensated for temperature dependency	

BAROMETRIC PRESSURE

Range	600-1100hPa
Accuracy	±0.5hPa
Resolution	0.1hPa
Units of measure	hPa, mbar, mmHg, InHg
Compensated for temperature dependency -30°C to +70°C	

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 dew point)

^{**} For Base Station please check the individual aneometer datasheets

Specifications may be subject to change without prior notice.

POWER SUPPLY

Input voltage	5V to 30V**
Current	< 16mA (Output 1 second) @12 V
SDI-12	
Input voltage 12V nominal (9.6-16 V)	
Current	< 6.5mA Low power operation

OUTPUTS

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 MetPak, MetPak RG & MetPak Pro

OPTIONAL ACCESSORIES

Cables	15m Power & Data cable USB Configuration cable
Hardware	Heater Interface Box

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.

MetPak

Wind Sensor Options

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:



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

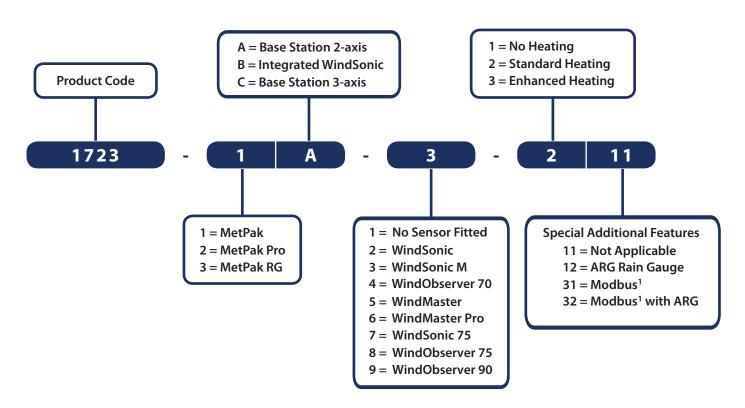
Three dimensional wind measurement up to 65 m/s in a stainless steel housing.

Output rate from the wind sensors is controlled by the Base Station.



Product Numbers Explained

Product options may be model specific. Consult the Gill sales team for availability



¹ RS232 ASCII for configuration only with Modbus option



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