MetPak PRO

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- ■ PT100
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MetPak Pro monitors the most essential weather parameters with the additional ability to connect up to four external measurement devices.

The system combines a Gill WindSonic ultrasonic wind speed & direction sensor, a highly accurate barometric pressure sensor and Rotronic Hygroclip temperature/humidity probe.

MetPak Pro contains additional inputs allowing for connection of a Pt100 temperature sensor, tipping bucket rain gauge (available from Gill) and two analogue sensors (water level sensor, pyranometer, pressure sensor, soil temperature sensor etc) and is supplied with selectable Gill ASCII, SDI-12 and Modbus outputs.
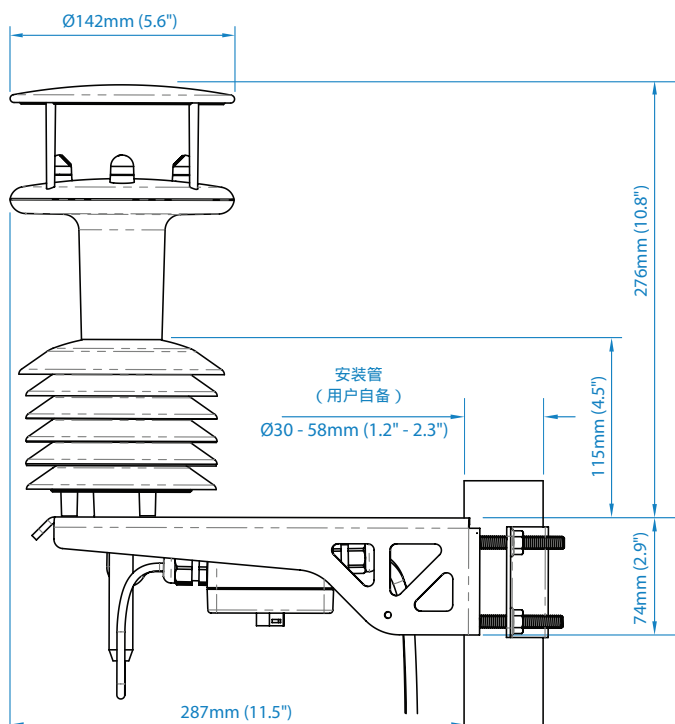
MetPak Pro

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MetPak Pro

Ø142mm (5.6")
276mm (10.8")
115mm (4.5")
Ø30 - 58mm (1.2" - 2.3")
74mm (2.9")
287mm (11.5")

- ■ MetSet
- ■ MetView   /
- ■
- ■   ASCII SDI-12 Modbus

- ■ MetPak Pro
     MetPak Pro
            MetPak Pro
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	U V	
	m/s,knots,mph,kph,ft/min	
	0- 60 m/s	0- 359°
	± 2% @ 12 m/s	± 3° @ 12 m/s
	0.01 m/s	1°

	Pt100 1/3 Class B
	-50- +100
	± 0.1
	0.1

	0- 100% RH
	± 0.8% @ 23
	0.1% RH
	% RH

	600- 1100 hPa
	± 0.5 hPa
	0.1 hPa
	hPa,bar, mmHg, inHg
-30- +70	

	0.1
	± 0.15 23 @ 20

	5- 30VDC
	26 mA @ 12VDC
SDI-12	
	12 VDC 9.6- 16VDC
	12mA

Digital outputs	RS232, RS422, RS485* , SDI-12 or Modbus (user selectable) * 2 wire point to point
Baud rates	4800-57600 (ASCII) or 1200 (SDI-12)
Protocols	ASCII, SDI-12 V 1.3, Modbus (RTU and ASCII)
Data output	1s, 2s, 4s or polled mode

Analogue 1	0-5 V or 4-20mA loop or self powered
Analogue 2	0-5 V or 4-20mA loop or self powered
MetPak Pro A-D Conversion	12 bit resolution with an accuracy of ± 0.1% of reading +35µV offset
Pt100 Temperature Probe	4 Wire Pt100 conforms to IEC 60751
Digital	Contact closure for tipping bucket rain gauge Capable of capturing events up to 10Hz

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

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

MetView	Free software for the display of data and logging
MetSet	Free software for the configuration of the MetPak, MetPak RG & MetPak Pro

Cables	15m Power & Data cable USB Configuration cable
Hardware	Tipping Bucket Rain Gauge MetPak Pro Junction Box MetPak Pro Junction Box PCB MetPak Pro Junction Box Mounting Bracket Heater Interface Box

Specifications may be subject to change without prior notice.

MetPak Pro 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.

Base Station

MetPak Pro 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, which includes inputs for a Pt100 temperature sensor, tipping bucket rain gauge (available from Gill) and two analogue sensors, can also be specified without a wind sensor if wind measurement data is not required.

MetPak Pro can be specified with a wind sensor from any of the options shown below:
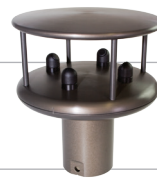
Optional
Junction Box

Optional
Rain Gauge

Sensor Options

WindSonic

For wind speed and direction measurements to 60 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.

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.
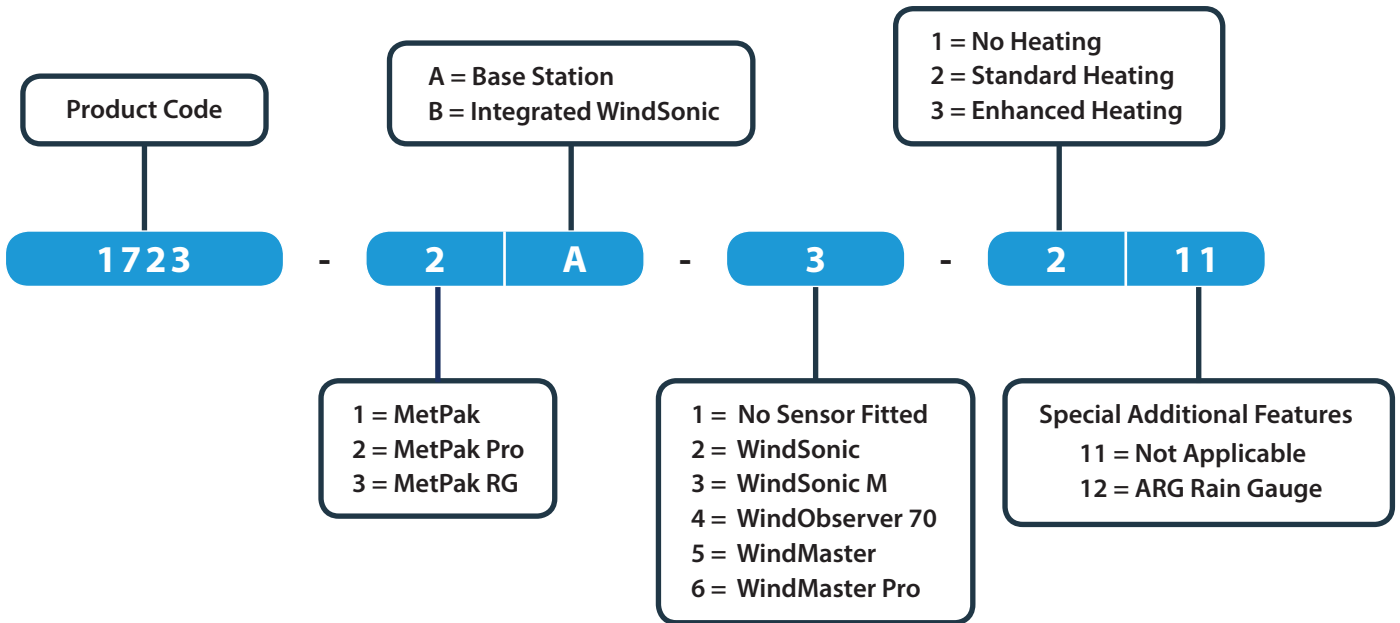
WindObserver *70*

With enhanced heating and wind measurements up to 70 m/s for extreme conditions.

RAINGAUGE

ARG100 Professional quality tipping bucket Rain Gauge.

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

MetPak **PRO**

Product Numbers Explained

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

Product Code

A = Base Station
B = Integrated WindSonic

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

1723 - **2** **A** - **3** - **2** **11**

1 = MetPak
2 = MetPak Pro
3 = MetPak RG

1 = No Sensor Fitted
2 = WindSonic
3 = WindSonic M
4 = WindObserver 70
5 = WindMaster
6 = WindMaster Pro

Special Additional Features
11 = Not Applicable
12 = ARG Rain Gauge