

MetPak II™

Weather Station



Key Features

- Wind Speed & Direction
- Temperature
- Humidity
- Barometric Pressure
- Dew Point

The MetPak II is a compact and lightweight multi-sensor instrument that measures a wide range of weather parameters.

Gill ultrasonic technology, as used in the proven WindSonic instrument, measures wind speed and direction. Temperature and humidity are measured using industry standard probes housed in a naturally aspirated radiation shield. Barometric pressure is measured within a vented enclosure. A serial data output is provided to interface to industry standard data loggers.



Wind Measurement

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

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

Air Temperature

Air temperature	PT100 1/3 Class B
Range	-35°C to +70°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 -20°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)

Power Supply

RS232, RS422	
Input voltage	5 V to 30 V
Current	< 16mA (Output 1 second) @12 V
SDI-12	
Input voltage	12 V nominal (9.6-16 V)
Current	< 6.5mA

Outputs

Digital outputs	RS232, RS422 or SDI-12
Baud rates	9600-57600 (ASCII) or 1200 (SDI-12)
Protocols	ASCII or SDI-12 V1.3
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	Gloss white painted aluminium mounting bracket (with moulded plastic V-block and stainless steel U-bolt), which allows attachment to a vertical pipe of any diameter between 25mm and 50mm
Weight	1.1kg (including bracket)

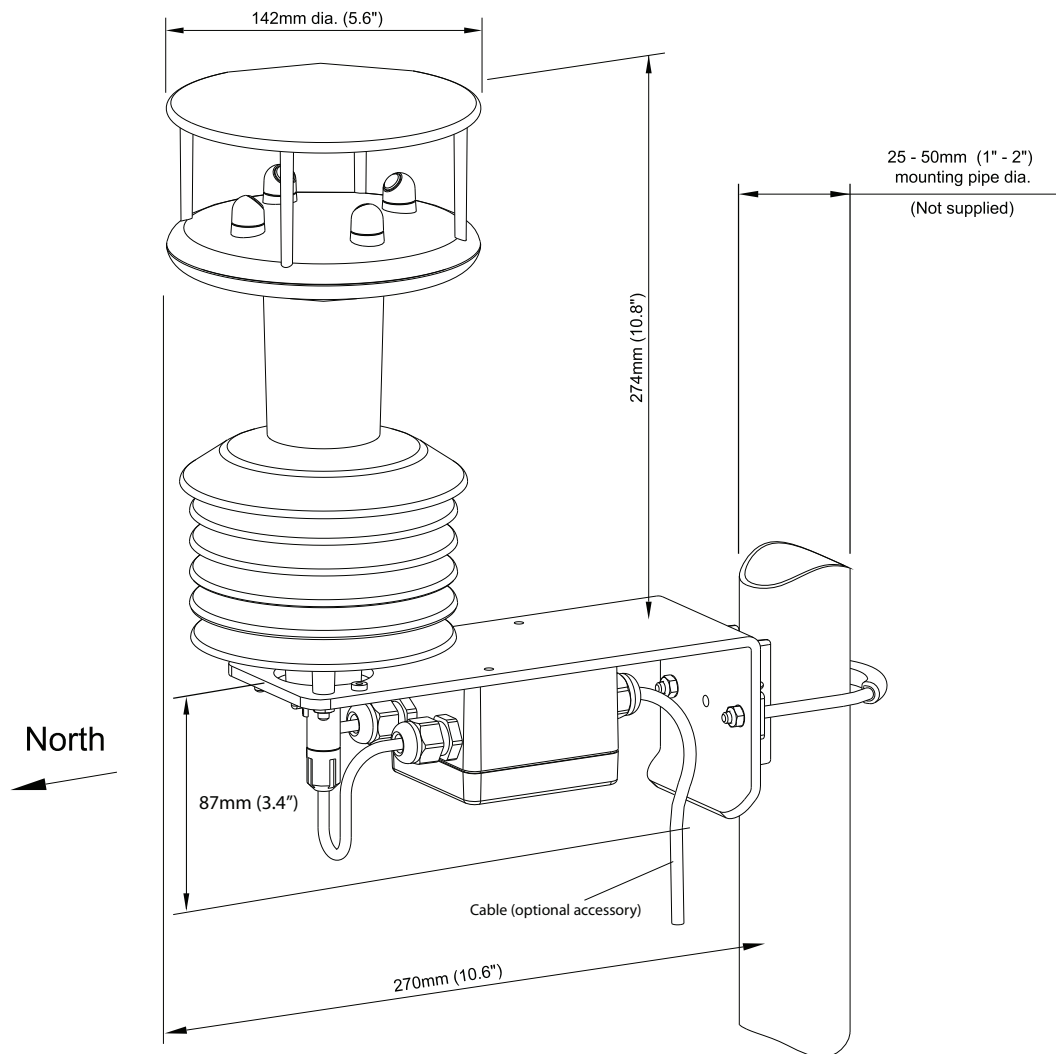
Software

MetView	Free software providing the means for configuring the Metpak II and reading output data
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Optional Accessories

- 15m Power and Data Cable
- USB Configuration Cable



This product is in continuous development and therefore specifications may be subject to change without prior notice.



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