## <u>MaxiMet</u>

# GMX501 Compact Weather Station

GILL

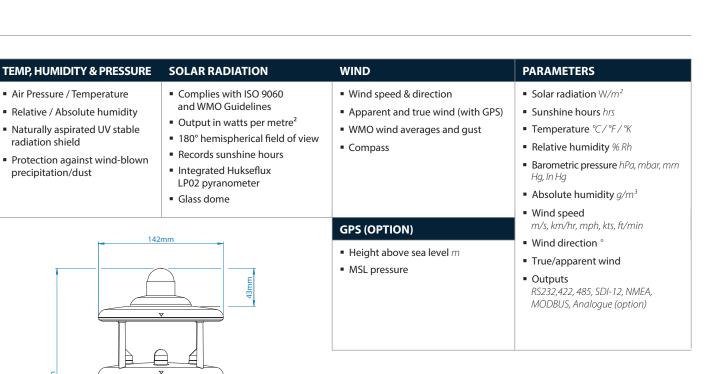
The MaxiMet range of compact weather stations is designed and manufactured by Gill Instruments. MaxiMet products use reliable, high quality instruments to provide accurate meteorological information in a wide variety of applications.

### **GMX501 Features**

**Temperature, humidity, pressure.** A combined instrument mounted inside three double louvered, naturally aspirated radiation shields with no moving parts. The results are high performance across each measurement over long periods of time.

**Solar radiation.** An integrated solar radiation sensor/pyranometer. This highly accurate instrument uses a thermal sensor mounted at its base and protected by a single glass dome to record the amount of light in watts per metre<sup>2</sup>. It is widely used in agrometeorological applications and for monitoring the performance of solar panels.

**Wind.** Wind speed and direction measurements are provided via an ultrasonic sensor and the addition of an electronic compass provides apparent wind measurements. Average speed and direction together with WMO averages and gust data is also provided. Add GPS (optional) to provide true wind and other features.



# All MaxiMet Models Feature Quality Measurements R Lightweight and Robust E Low Power Mode C

- Free of Charge Software
- Gill Proven Reliability
- Compact Integrated Design
- Real Time Output
- Easy Installation
- Gill Customer Support
- 2 Year Warranty

\* Please see the manual for a full list of derived parameters

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## <u>MaxiMet</u>

#### **Applications**

WIND SPEED

Resolution m/s Starting Speed

Sampling Rate

WIND DIRECTION

Range Accuracy

Units

Range

Units

Range

Resolution

Sampling Rate

HUMIDITY

Resolution

Accuracy Sampling Rate

Units

Accuracy

Units

Range

Accuracy

Resolution

Sampling Rate

TEMPERATURE

Building and Industrial Controls

0.1 m/s to 60 m/s

± 3% to 40 m/s, ± 5% to 60 m/s

m/s, km/hr, mph, kts, ft/min

0.01

0.1 m/s

1 Hz

0-359°

1°

1 Hz

0.1

1 Hz

°C, °F, °K

0-100%

1%

1 Hz % Rh, g/m<sup>3</sup>

Degrees

± 3° to 40 m/s

 $\pm$  5° to 60 m/s

-40°C to +70°C

± 0.3°C @ 20°C

- Authorities
- Transport

- Coastal
- Agricultural
- Safety

DEW POINT	
Range	-40°C to +70°C
Resolution	0.1
Accuracy	± 0.3°C @ 20°C
Units	°C, °F, °K
Sampling Rate	1 Hz

PRESSURE	
Range	300 to 1100 hpa
Resolution	0.1 hPa
Accuracy	± 0.5 hPa @ 25°C
Sampling Rate	1 Hz
Units	hPa, bar, mmHg, inHg

GLOBAL SOLAR RADIATION		
Wavelength Sensitivity	300 to 3000 nm	
Output Range	0 to 1600 W/m <sup>2</sup>	
Resolution	1 W/m <sup>2</sup>	
DIN Standard	ISO 9060 Second Class	
Sampling Rate	1 Hz	
Units	W/m <sup>2</sup>	

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- Commercial
- Energy

OUTPUTS	
Output rate	1/s, 1/min, 1/hr
Digital Comms Modes	Serial RS232, RS422, RS485, SDI-12, NMEA, MODBUS, ASCII
Analogue Outputs	Available via separate optional device

POWER	
Power Supply	5 to 30 Vdc
Power (Nominal) 12 Vdc	25 mA continuous high mode. 0.7 mA eco-power mode (1 hour polled)

ENVIRONMENTAL CONDITIONS		
IP Rating	66	
Operational Temperature Range:	-40°C to +70°C	
EMC Standard:	BS EN 61326 : 2013 FCC CFR47 parts 15.109	
CE Marking	YES	
RoHS compliant	YES	
Weight	0.8 Kg	
Origin	UK	

Specifications may be subject to change without prior notice

± 2% @ 20°C (10%-90% RH)



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