<u>MaxiMet</u>

GMX501 Compact Weather Station

GILL

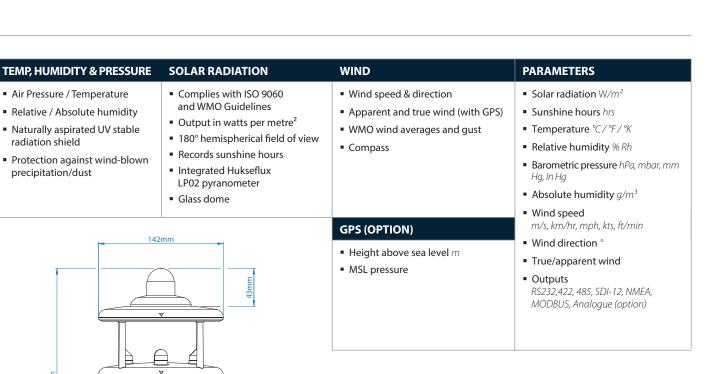
The MaxiMet range of compact weather stations is designed and manufactured by Gill Instruments. MaxiMet products use reliable, high quality instruments to provide accurate meteorological information in a wide variety of applications.

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 metre². 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/m³

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 ² | |
| Resolution | 1 W/m ² | |
| DIN Standard | ISO 9060 Second Class | |
| Sampling Rate | 1 Hz | |
| Units | W/m ² | |

| Educationa | |
|--------------------------------|--|
| | |

- 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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