陕西威瑞仪器仪表有限公司 生产代理销售:实验检测设备气象科学仪器设备 Tel:18966887800 Web:www.xavery.cn Email:verytrade@163.com



GMX501 Compact Weather Station

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.

TEMP, HUMIDITY & PRESSURE SOLAR RADIATION WIND PARAMETERS • Air Pressure / Temperature Complies with ISO 9060 Wind speed & direction Solar radiation W/m² and WMO Guidelines Relative / Absolute humidity Apparent and true wind (with GPS) Sunshine hours hrs Output in watts per metre² Naturally aspirated UV stable ■ Temperature °C/°F/°K WMO wind averages and gust 180° hemispherical field of view radiation shield Relative humidity % Rh Compass Records sunshine hours Protection against wind-blown Barometric pressure hPa, mbar, mm precipitation/dust Integrated Hukseflux Hg, In Hg LP02 pyranometer ■ Wet bulb temperature °C/°F/°K Glass dome Absolute humidity g/m³ **GPS (OPTION)** Air density kg/m3 142mm Wind speed • Height above sea level m m/s, km/hr, mph, kts, ft/min Sunrise/sunset Wind direction ° Position of the sun ■ Wind chill °C/°F/°K Twilight True/apparent wind Solar Noon Angle of Tilt MSL pressure Outputs RS232,422, 485, SDI-12, NMEA, MODBUS, Analogue (option) 264mm **All MaxiMet Models Feature** Quality Measurements Real Time Output Lightweight and Robust Easy Installation Q Low Power Mode Gill Customer Support Free of Charge Software 2 Year Warranty Gill Proven Reliability \cap Compact Integrated Design





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MaxiMet

GMX501 Compact Weather Station

Applications

WIND SPEED

Resolution m/s Starting Threshold

Sampling Rate

WIND DIRECTION

Range Accuracy

Units

Range

Accuracy

Resolution

Units

Range Resolution

Accuracy

Units

Sampling Rate

Starting Threshold

TEMPERATURE

Sampling Rate

Building and Industrial Controls

0.01 m/s to 60 m/s

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

 \pm 3% to 40 m/s, \pm 5% to 60 m/s

0.01

1 Hz

0-359° ± 3° to 40 m/s

1°

0.05 m/s

Degrees

-40°C to +70°C

± 0.3°C @ 20°C

1 Hz

0.1

1 Hz

°C, °F, °K

± 5° to 60 m/s

0.01 m/s

- 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	

Educational

- 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 61326-2-1:2013 FCC, CFR Title 47, Part 15, Subpart B, Class A digital device	
CE Marking	YES	
RoHS compliant	YES	
Weight	0.6 Kg	
Origin	UK	

 HUMIDITY

 Range
 0-100%

 Resolution
 1%

 Accuracy
 ± 2% @ 20°C (10%-90% RH)

 Sampling Rate
 1 Hz

 Units
 % Rh, g/m³

Specifications may be subject to change without prior notice



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