MaxiMet

GMX301 Compact Weather Station

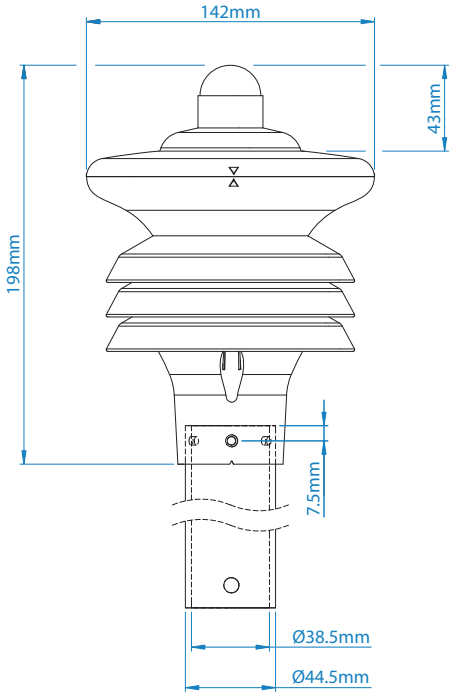
The MaxiMet range of compact weather stations is designed and manufactured by Gill Instruments. MaxiMet products use reliable, high quality instruments to provide accurate meteorological information in a wide variety of applications.

GMX301 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^2.It is widely used in agro-meteorological applications and for monitoring the performance of solar panels.

TEMP, HUMIDITY & PRESSURE	SOLAR RADIATION
▪ Air Pressure / Temperature	▪ Complies with ISO 9060 and WMO Guidelines
▪ Relative / Absolute humidity	▪ Output in watts per metre^2
▪ Naturally aspirated UV stable radiation shield	▪ 180° hemispherical field of view
▪ Protection against wind-blown precipitation/dust	▪ Records sunshine hours
	▪ Integrated Hukseflux LP02 pyranometer
	▪ Glass dome



PARAMETERS

- Solar radiation *w/m²*
- Sunshine hours *hrs*
- Solar Noon
- Temperature *°C / °F / °K*
- Relative humidity *% Rh*
- Barometric pressure *hPa, mbar, mm Hg, In Hg*
- Wet bulb temperature *°C / °F / °K*
- Absolute humidity *g/m³*
- Air density *kg/m3*
- Angle of Tilt
- Outputs
  RS232, 422, 485 (ASCII), SDI-12, NMEA, MODBUS, Analogue (option)

GPS (MANUAL)

- Height above sea level *m*
- Sunrise/sunset
- Position of the sun
- Twilight
- Solar Noon
- MSL pressure

All MaxiMet Models Feature

- Quality Measurements
- Lightweight and Robust
- Low Power Mode
- 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

Applications

- Building and Industrial Controls
- Authorities
- Transport
- Coastal
- Agricultural
- Safety
- Educational
- Commercial
- Energy

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

HUMIDITY	
Range	0-100%
Resolution	1%
Accuracy	± 2% @ 20°C (10%-90% RH)
Sampling Rate	1 Hz
Units	% Rh, g/m^3

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, mbar, 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

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	5.5 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

Specifications may be subject to change without prior notice

GILL

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