

MaxiMet[®]

GMX301 Compact Weather Station

High quality, easy-to-use, integrated weather station

MaxiMet compact weather stations are designed to be simple to install, use and maintain. In addition to providing measured parameters, the products derive additional parameters and data is output as a single string and available on a range of communications protocols.

MaxiMet weather stations benefit from the same technology used in Gill's scientific product range, ensuring measurement accuracy, low maintenance and continuous status reporting.

The MaxiMet family includes a range of sensor configurations allowing customers to select the model most appropriate to their needs.

Typical applications

- Control systems including smart buildings, agriculture and industry.
- Solar farms.
- Road and rail.
- Ports and harbours.
- Reporting systems for transport and safety.
- Low power/solar powered deployments and IoT applications.

MaxiMet GMX301 key features

• Four measured parameters:

Temperature, humidity, pressure, solar radiation.

- Multiple additional derived parameters based on combining measured parameters, such as dew point, pressure at sea level, heat index and sunshine hours.
- High quality, accurate, solid state sensors.

Benefits

- High quality measurement data due to careful sensor selection and extensive design testing and verification.
- Easy to set-up and integrate using comprehensive software to select the reported and derived parameters and measurement units required.
- Easy to install and long operational life, due to a compact, robust design and the selection of low maintenance sensors.
- Suitable for use with battery or solar systems in low power mode.



MaxiMet GMX301 measures 4 parameters including solar radiation.



MaxiMet compact weather stations are integrated into systems monitoring gas and particulate concentrations in the air.

For pricing or any further information, please contact Omni Instruments Ltd.



Contact Details:

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AIR TEMPERATURE	
Range	-35°C to +70°C
Accuracy	±0.3°C
Resolution	0.1°C
Units of measurement	°C, °F, K

RELATIVE HUMIDITY		
Range	0-100% RH	
Accuracy	typically ±2% RH across full range	
Resolution	0.1% RH	
Units of measurement	% RH, g/m³	

BAROMETRIC PRESSURE			
Range	300-1250 hPa		
Accuracy 900-1100 hPa, 25-40°C	Absolute (typically) ±0.4 hPa Relative (typically) ±0.08 hPa		
Resolution	0.1 hPa		
Units of measurement	hPa, mbar, mmHg, inHg		

SOLAR RADIATION				
Wavelength sensitivity	300 - 3000 nm			
Output range	0-1600 W/m ²			
Resolution	1 W/m²			
DIN standard	ISO 9060 Class: spectrally flat Class C			
Units of measurement	W/m ²			

WARRANTY	
Warranty	24 months

OUTPUTS			
Digital comms modes	RS232, RS422 RS485, SDI-12,		
Protocols	ASCII, SDI-12 v1.3, NMEA 0183 MODBUS (RTU and ASCII)		
Data outputs rates	1/s, 1/min, 1/hour, or polled		

POWER SUPPLY			
Input voltage	5-30 VDC		
Average current consumption @ 12VDC	6 mA continuous mode (std unit) 1.3 mA eco-power mode (1/hr)		

MECHANICAL		
Construction	UV stabilized thermoplastic	
Fittings	Fit to 44.45 mm (1.75 in) pole or mast	
Weight	0.6 kg	
Connector type	9-way clipper connector	

ENVIRONMENTAL	
Protection class	IP66
Operating temp.	-35°C to +70°C
Storage temp	-40°C to +70°C

STANDARD EQUIPMENT (supplied with product)
MaxiMet product
Mating connector
MetSet software*, to set-up and configure MaxiMet (comms mode, measurement units, reporting intervals, derived parameters, etc.)
MetView software*, to view reported parameters
MaxiMet User Manual*
* downloadable from Gill Instruments website

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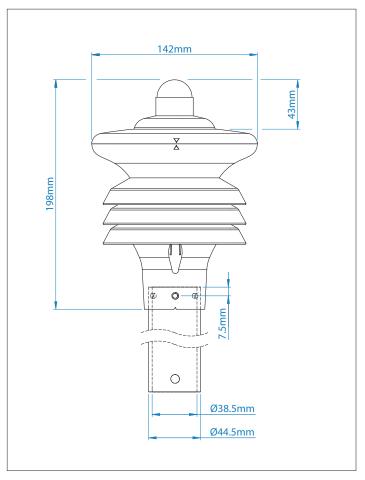
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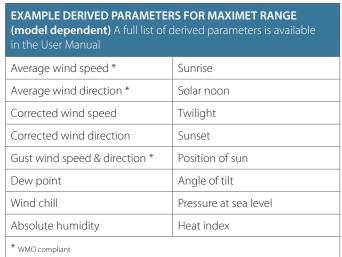


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OTHER MAXIMET MODELS						
	Wind	Temperature, humidity, pressure	Rain	Solar	Compass, GPS	Low power heating
GMX200	Υ				Y, as option	
GMX240	Υ		Integrated optical rain sensor		Y, as option	
GMX260	Υ				Y 6-axis, option	
GMX300		Υ				
GMX400		Υ	Integrated optical rain sensor			
GMX500	Υ	Υ			Y, as option	Option
GMX501	Υ	Y		Υ	Y, as option	Option
GMX550	Y	Y	Tipping bucket connector		Y, as option	Option
GMX551	Y	Y	Tipping bucket connector	Υ	Y, as option	Option
GMX560	Y	Y			Y 6-axis, option	Option
GMX600	Υ	Y	Integrated optical rain sensor		Y, as option	Option

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