# <u>MaxiMet</u>®

### **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.



## Datasheet

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# MaxiMet®

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## GMX301 Compact Weather Station

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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 $\pm 2\%$ RH across full range
Resolution	1% RH
Units of measurement	% RH, g/m <sup>3</sup>

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 <sup>2</sup>			
Resolution	1 W/m <sup>2</sup>			
DIN standard	ISO 9060 Second Class			
Units of measurement	W/m <sup>2</sup>			

24 months

RS232, RS422 RS485, SDI-12, NMEA 0183, MODBUS			
ASCII, SDI-12 v1.3, MODBUS (RTU and ASCII)			
1/s, 1/min, 1/hour, or polled			
5-30 VDC			
6 mA continuous mode (std unit) +10 mA with GPS option 0.7 mA eco-power mode			
UV stabilized thermoplastic			
Fit to 30mm to 58mm pole or mast			
0.6 kg			
9-way clipper connector			
IP66			
-35°C to +70°C			
-40°C to +70°C			
T (supplied with product)			
-up and configure MaxiMet (comms mode orting intervals, derived parameters, etc.)			
5			

MaxiMet User Manual\*

\* downloadable from Gill Instruments website

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WARRANTY Warranty

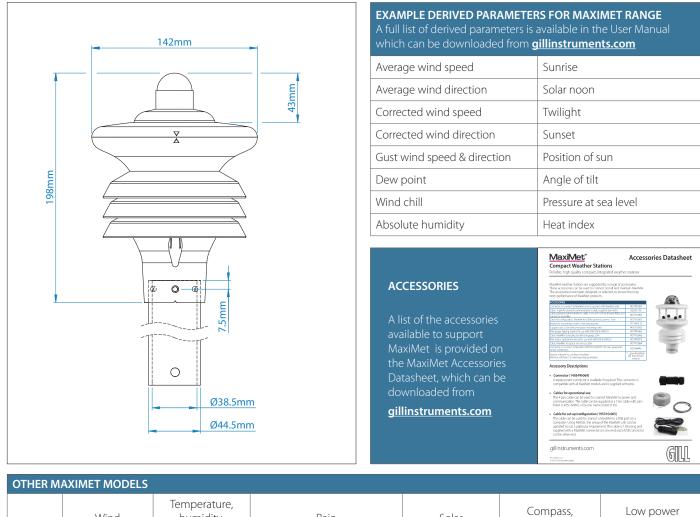


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OTHER MAXIMET MODELS								
	Wind	Temperature, humidity, pressure	Rain	Solar	Compass, GPS	Low power heating		
GMX200	Y				Y, as option			
GMX240	Y		Integrated optical rain sensor		Y, as option			
GMX300		Y						
GMX400		Y	Integrated optical rain sensor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

For more information about MaxiMet®, please contact Gill Instruments.

### Designed and manufactured in the UK by Gill Instruments Limited.

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#### We represent this supplier. For more information contact Observator Instruments:

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#### Welcome to the world of Observator

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in Australia, Germany, the Netherlands, Singapore and the United Kingdom.

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