



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.







GMX301 Compact Weather Station

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

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

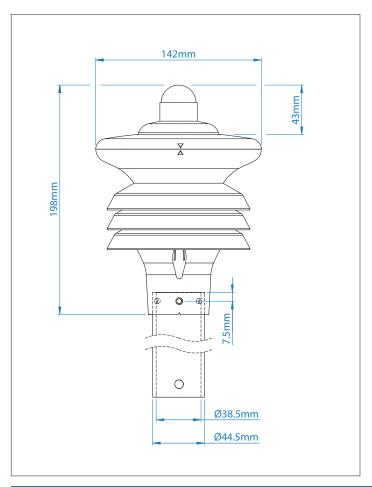






GMX301 Compact Weather Station

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



EXAMPLE DERIVED PARAMETERS FOR MAXIMET RANGE (model dependent) A full list of derived parameters is available in the User Manual, downloadable from gillinstruments.com		
Average wind speed *	Sunrise	
Average wind direction *	Solar noon	
Corrected wind speed	Twilight	
Corrected wind direction	Sunset	
Gust wind speed & direction *	Position of sun	
Dew point	Angle of tilt	
Wind chill	Pressure at sea level	
Absolute humidity	Heat index	
* WMO compliant		
ACCESSORIES	MaxiMet* Accessories Datasheet Compact Weather Stations Politak hybrid Justy compact, insegned weather stations	

ACCESSORIES	MaxiMet* Compact Weather Stations Refable, high quality compact, integrated weaths	Accessories Datasheet
	MailMet weather stations are supported by a range of accessories. These accessories can be used to context, install and maintain/MailMet. The accessories have been disagreed, or selected to ensure the long term performance of MailMet products.	
A list of the accessories	ACCESSORIES Connector, to connect to WardNet rione is supplied with MardNet unit;	14059300
A list of the accessories	Cable, 4 pair for power & communications cable, supplied per metry Cable, source & covers structure, make 15 m with preparation rise final and	080186
	connects quantity Dide for configuration, Washington 258 for power 5 comms. I firm	140516000
available to cupport	Englet for mounting to wall or damping to gold	1771P61IS
available to support	Support subs OSm with pre-topped mounting holes	140530055
	Role gauge, ripping budiet, for use with GMXSSI & GMXSSI Cable, MadMet to ripping budiet rale gauge, 28m	1953 (9000)
MaxiMet is provided on	Rain sensor control rain sensor for our with CMXSS & CMXSS	195399073
iviaxiiviei. Is provided on	Cable, MaxWetto optical rain service, 20m	195319064
	Connector, to coeniest to MacMet Glassocia Galassi for air gaege fain smacr connection	CORSES Market .
the MaxiMet Accessories	Meties software's coefigue MoMes Metilies software's to view spotsel parameters	* developed from Gill Instruments
Datasheet, which can be downloaded from gillinstruments.com	Accessory Descriptions Connector (148997-600) Another (148997-600) Another (148997-600) Another (148997-600) Another (148997-600) The age of the control of the contr	wer and title with ping out to the with ping out to the ping out to ping to the ping out to ping out t
	gillinstruments.com	GILL

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		Y				
GMX400		Y	Integrated optical rain sensor			
GMX500	Υ	Y			Y, as option	Option
GMX501	Υ	Y		Υ	Y, as option	Option
GMX550	Υ	Y	Tipping bucket connector		Y, as option	Option
GMX551	Υ	Υ	Tipping bucket connector	Υ	Y, as option	Option
GMX560	Υ	Υ			Y 6-axis, option	Option
GMX600	Υ	Y	Integrated optical rain sensor		Y, as option	Option

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

Designed and manufactured in the UK by Gill Instruments Limited.



