



GMX600 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 GMX600 key features

Six measured parameters:

Wind speed & direction, temperature, humidity, pressure, rainfall (optical sensor), optional heating, optional GPS function.

- Multiple additional derived parameters based on combining measured parameters, such as gust, average wind speed and dew point.
- High quality, accurate, solid state sensors.
- 2-axis compass.
- Optional integrated GPS capability available to provide location, GPS timestamp and a calculation of true wind if the platform is moving.
- Optional low power heating.

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 GMX600 measures 6 parameters including precipitation.



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









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WIND SPEED		
Range	0-60 m/s	
Accuracy	0-10 m/s 0.3 m/s RMSE 10-40 m/s 3% RMSE 40-60 m/s 5% RMSE	
Resolution	0.01 m/s	
Starting threshold	0.01 m/s	
Units of measurement	m/s, km/h, mph, kts, ft/min	

WIND DIRECTION	
Range	0-360°
Accuracy	0.5 m/s-40 m/s ±3° 40-60 m/s ±5°
Resolution	1°
Units of measurement	degrees

AIR TEMPERATURE	
Range	-40°C to +70°C with heating
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

PRECIPITATION	
Measurement type	Optical
Range	0-300 mm/hr
Resolution	0.08 mm
Units of measurement	mm/hr, mm total, in/hr, in total

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 (10-30 VDC for heated models)	
Average current consumption @ 12 VDC	67 mA continuous mode (std unit) 400 mA total with heating option +9 mA with GPS option 1.3 mA eco-power mode (no GPS, 1/hr)	
	400 mA total with heating option +9 mA with GPS option	
consumption @ 12 VDC	400 mA total with heating option +9 mA with GPS option	

Connector type	9-way clipper connector
ENVIRONMENTAL	
Protection class	IP66
Operating temp.	-35°C to +70°C -40°C to +70°C with heating option
Storage temp	-40°C to +70°C

0.8 kg

Fittings Weight Fit to 44.45 mm (1.75 in) pole or mast

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	
OPTIONS	

OPTIONS	TIONS	
GPS	Available as an option. Enables reporting of location, height, real-time clock, true wind (for vehicle mounting applications	
Heating	Available as an option for operation in extremely low temperatures	

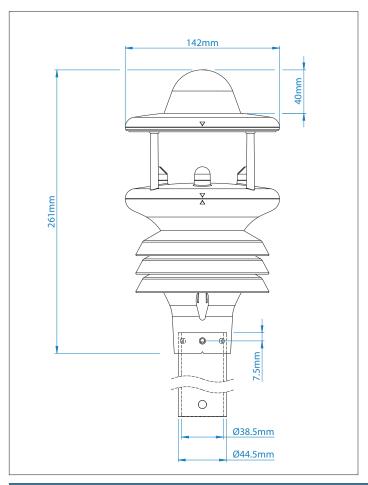






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EXAMPLE DERIVED PARAMETERS FOR MAXIMET RANGE (model dependent) A full list of derived parameters is available in the User Manual, downloadable from gillinstruments.com		
Average wind speed *	Sunrise	
Average wind direction *	Solar noon	
Corrected wind 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	MaxiVet* Accessories Datasheet Compact Weather Stations Patiest right authorises authorises	

ACCESSORIES	MaxiMet* Accessories Datasheet Compact Weather Stations Relate high quality compact, integrated weather stations			
	MaxiNet weather stations are supported by a range of accessories. These occessories can be used to context, install and maintain MaxiMet. The occessories have been designed, or selected, to ensure the long- term performance of MaxiMet products.			
A list of the accessories	MODESCORES Connects to Connect to Manifect core is applied with Manifect cort Colon-4 (and its present Communication colon supplied comments COSC 156			
A list of the accessories	Cabi. 4 part of power a communication cabis, appeal of metry Cabi, power & communication cabis, Sim with connector pins fitted and 14/5 (\$600)			
	Cabe for configuation, Workfetts USB for power & comms, 1 Bin 1953 19565 Broder for mounting to wall or clanging to cole 177749-115			
available to support	Bracket for mounting-to-scall or changing to gold 1771PK115 Support tube CSm with principlosed mounting holes 1405.06056			
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MaxiMet is provided on	Cubia, MacAlerto optical rain servor, 28m 1953 19664			
	Connector, to connect to MacMar Girl 550 & GM551 for sin garge fain 0,0006466 (Massacry 4)			
the MaxiMet Accessories	Vertices outhware" to configure MacMan Vertices outhware" to configure MacMan Vertices outhware" to view reposed parameters Annual Configure Vertices Annu			
Datasheet, which can be downloaded from gillinstruments.com	Accessory Descriptions - Connected (1997 Med) A replacement connection and select impassed. The connection is A replacement connection and select impassed the connection is the separated seal has control connected selection (1997 Med). The separated seal has control connected sealed in govern and selection (1997 Med) and selection (1997 Med). - Coble for comply configuration (1997 Med) - Coble for comply configuration (
	gillinstruments.com			

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					
GMX301		Υ		Υ			
GMX400		Υ	Integrated optical rain sensor				
GMX500	Υ	Υ			Y, as option	Option	
GMX501	Υ	Y		Υ	Y, as option	Option	
GMX550	Υ	Υ	Tipping bucket connector		Y, as option	Option	
GMX551	Υ	Υ	Tipping bucket connector	Υ	Y, as option	Option	
GMX560	Υ	Y			Y 6-axis, option	Option	

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

Designed and manufactured in the UK by Gill Instruments Limited.



