<u>MaxiMet</u>®

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.

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MaxiMet GMX600 measures 6 parameters including precipitation.



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



Datasheet

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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
Units of measurement	m/s, km/h, mph, kts, ft/min

WIND DIRECTION	RECTION	
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	°С, °F, К

RELATIVE HUMIDITY	
Range	0-100% RH
Accuracy	typically $\pm 2\%$ RH across full range
Resolution	1% RH
Units of measurement	% RH, g/m ³

	AROMETRIC 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	ECIPITATION	
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	

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OUTPUTS	
Digital comms modes	RS232, RS422 RS485, SDI-12, NMEA 0183, MODBUS
Protocols	ASCII, SDI-12 v1.3, 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)
Current spec @ 12VDC	64 mA continuous mode (std unit) 400 mA total with heating option +10 mA with GPS option 0.7 mA eco-power mode
MECHANICAL	
Construction	UV stabilized thermoplastic
Fittings	Fit to 30 mm to 58 mm pole or mast
Weight	0.8 kg
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
STANDARD EQUIPMEN	Γ (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*	
MaxiMet User Manual*	
MaxiMet User Manual* * downloadable from Gill Instrur	nents website
	nents website

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

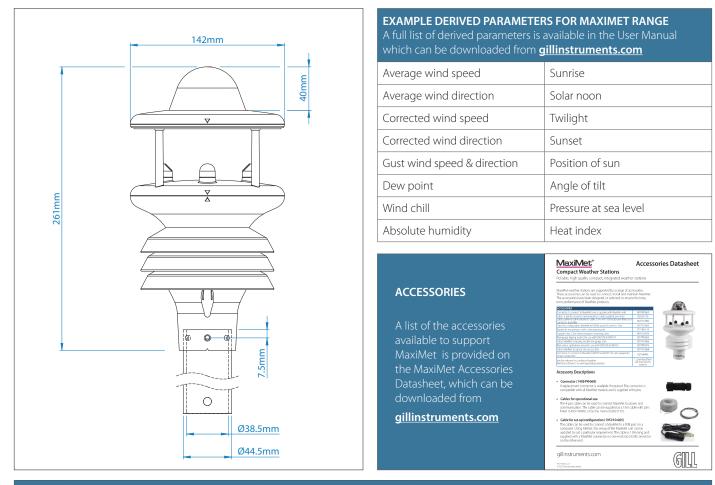


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OTHER MAXIMET MODELS Temperature, Compass, Low power Wind humidity, Rain Solar GPS heating pressure GMX200 Υ Y, as option GMX240 Υ Integrated optical rain sensor Y, as option GMX300 Y GMX301 Y Υ GMX400 Y Integrated optical rain sensor GMX500 Υ Υ Y, as option Y, as option GMX501 Υ Υ Y Y, as option Y, as option GMX550 Υ Υ Tipping bucket connector Y, as option Y, as option GMX551 Υ Y Y, as option Υ Tipping bucket connector Y, as option Y Y GMX560 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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