

## GMX240 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 GMX240 key features

- Three measured parameters:  
**Wind speed & direction, rainfall (optical sensor), optional GPS function.**
- Multiple additional derived parameters based on combining measured parameters such as gust, average wind speed and corrected direction.
- 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.

### 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 GMX240 measures 3 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
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
Average current consumption @ 12 VDC	64 mA continuous mode (std unit) +9 mA with GPS option 1.3 mA eco-power mode (no GPS, 1/hr)

MECHANICAL	
Construction	UV stabilized thermoplastic
Fittings	Fit to 44.45 mm (1.75 in) pole or mast
Weight	0.5 kg
Connector type	9-way clipper connector

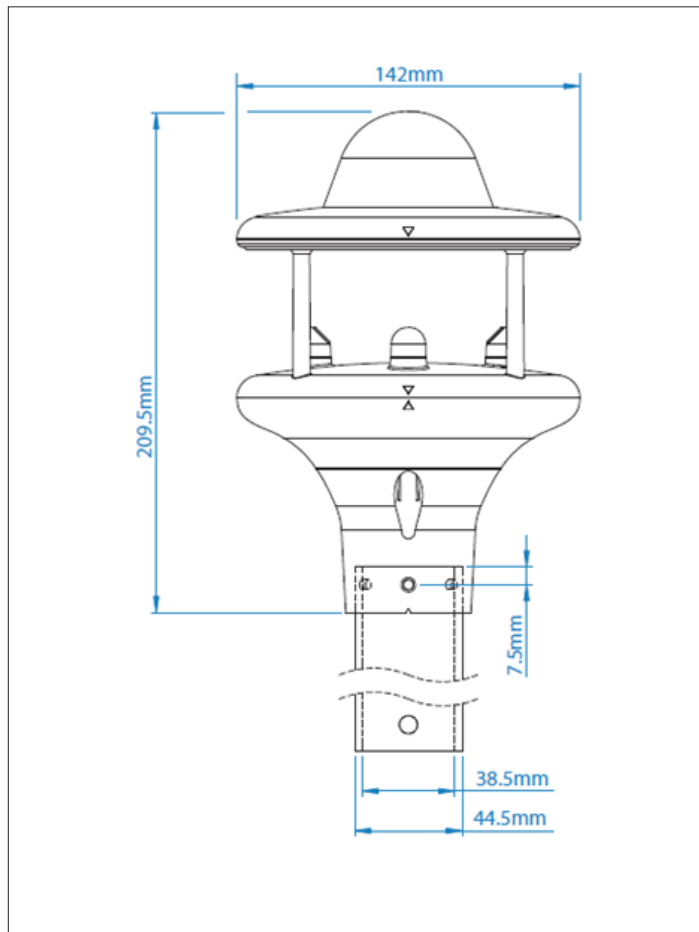
ENVIRONMENTAL	
Protection class	IP66
Operating temp.	-35°C to +70°C
Storage temp	-40°C to +70°C

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	

OPTIONS	
GPS	Available as an option. Enables reporting of location, height, real time clock, true wind (for vehicle mounting applications)

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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](http://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

A list of the accessories available to support MaxiMet is provided on the MaxiMet Accessories Datasheet, which can be downloaded from [gillinstruments.com](http://gillinstruments.com)

**MaxiMet®**  
Compact Weather Stations  
Rugged, high quality compact, integrated weather stations

**Accessories Datasheet**

MaxiMet weather stations are supported in a range of accessories. These accessories can be used to connect, install and maintain MaxiMet. The accessories have been designed or selected to ensure the long term performance of MaxiMet products.

Accessories	MaxiMet Model	Part Number
10-pin D-sub connector	GMX200, GMX260, GMX300, GMX301, GMX400, GMX500, GMX501, GMX550, GMX551, GMX560, GMX600	10-0000
4-pin D-sub connector	GMX200, GMX260, GMX300, GMX301, GMX400, GMX500, GMX501, GMX550, GMX551, GMX560, GMX600	4-0000
10-pin D-sub connector with cable	GMX200, GMX260, GMX300, GMX301, GMX400, GMX500, GMX501, GMX550, GMX551, GMX560, GMX600	10-0001
4-pin D-sub connector with cable	GMX200, GMX260, GMX300, GMX301, GMX400, GMX500, GMX501, GMX550, GMX551, GMX560, GMX600	4-0001
10-pin D-sub connector with cable and power supply	GMX200, GMX260, GMX300, GMX301, GMX400, GMX500, GMX501, GMX550, GMX551, GMX560, GMX600	10-0002
4-pin D-sub connector with cable and power supply	GMX200, GMX260, GMX300, GMX301, GMX400, GMX500, GMX501, GMX550, GMX551, GMX560, GMX600	4-0002
10-pin D-sub connector with cable and power supply and GPS	GMX200, GMX260, GMX300, GMX301, GMX400, GMX500, GMX501, GMX550, GMX551, GMX560, GMX600	10-0003
4-pin D-sub connector with cable and power supply and GPS	GMX200, GMX260, GMX300, GMX301, GMX400, GMX500, GMX501, GMX550, GMX551, GMX560, GMX600	4-0003
10-pin D-sub connector with cable and power supply and GPS and solar panel	GMX200, GMX260, GMX300, GMX301, GMX400, GMX500, GMX501, GMX550, GMX551, GMX560, GMX600	10-0004
4-pin D-sub connector with cable and power supply and GPS and solar panel	GMX200, GMX260, GMX300, GMX301, GMX400, GMX500, GMX501, GMX550, GMX551, GMX560, GMX600	4-0004

**Accessory Descriptions**

- Connectors (10/4-pin D-sub)**  
A replacement connector is available. Equipped. The connector is compatible with all MaxiMet models and is supplied with pins.
- Cables for operational use**  
The 4-pin cable can be used to connect MaxiMet to power and communication. The cable can be specified as a 1m cable with pins. Part # 10-0001 or 4-0001, or by the metric 10-0002/4-0002.
- Cable for setup/configuration (10/4-pin D-sub)**  
This cable is used to connect MaxiMet to a PC or laptop on a computer. Using MaxiMet, the setup of the MaxiMet unit can be configured to meet specific requirements. The cable is 1m long and is supplied with a MaxiMet connector on one end and a USB connector on the other end.

[gillinstruments.com](http://gillinstruments.com)

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### OTHER MAXIMET MODELS

	Wind	Temperature, humidity, pressure	Rain	Solar	Compass, GPS	Low power heating
<b>GMX200</b>	Y				Y, as option	
<b>GMX260</b>	Y				Y 6-axis, option	
<b>GMX300</b>		Y				
<b>GMX301</b>		Y		Y		
<b>GMX400</b>		Y	Integrated optical rain sensor			
<b>GMX500</b>	Y	Y			Y, as option	Option
<b>GMX501</b>	Y	Y		Y	Y, as option	Option
<b>GMX550</b>	Y	Y	Tipping bucket connector		Y, as option	Option
<b>GMX551</b>	Y	Y	Tipping bucket connector	Y	Y, as option	Option
<b>GMX560</b>	Y	Y	Integrated optical rain sensor		Y 6-axis, option	Option
<b>GMX600</b>	Y	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.**