



GMX200 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 GMX200 key features

Two measured parameters:

Wind speed & direction, 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 GMX200 measures 2 parameters.



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







GMX200 Compact Weather Station

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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

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	26 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

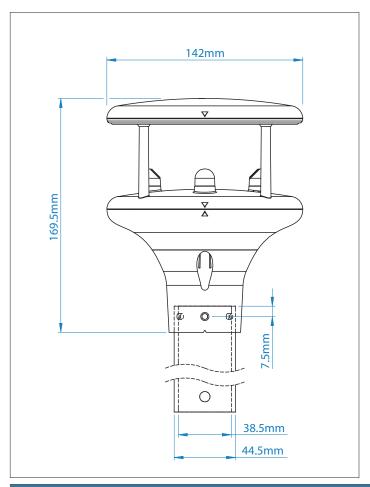
OPTIONS	
GPS	Available as an option. Enables reporting of location, height, real time clock, true wind (for vehicle mounting applications





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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				
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				
	MaxiMet* Accessories Datasheet			

ACCESSORIES	Compact Weather Stations Belable, Irigh quality compact, integrated weaths. Maskiff weather stations are supported by a range of los these excessors can be useful content, intell and an an other performance of Maskiff perbuck, identified in the other performance of Maskiff perbuck.	cessories.
A list of the accessories available to support MaxiMet is provided on the MaxiMet Accessories Datasheet, which can be downloaded from gillinstruments.com	Controller Service and	Total Control of Contr
	gillinstruments.com	GILL

OTHER MAXIMET MODELS						
	Wind	Temperature, humidity, pressure	Rain	Solar	Compass, GPS	Low power heating
GMX240	Υ		Integrated optical rain sensor		Y, as option	
GMX260	Υ				Y 6-axis, option	
GMX300		Y				
GMX301		Y		Υ		
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	Y	Tipping bucket connector	Υ	Y, as option	Option
GMX560	Υ	Y			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.









GMX500 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 GMX500 key features

Five measured parameters:

Wind speed & direction, temperature, humidity, pressure, 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 GMX500 measures 5 parameters.



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







GMX500 Compact Weather Station

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

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

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	26 mA continuous mode (std unit) 400 mA total with heating +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	0.7 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 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
Heating	Available as an option for operation in extremely low temperatures

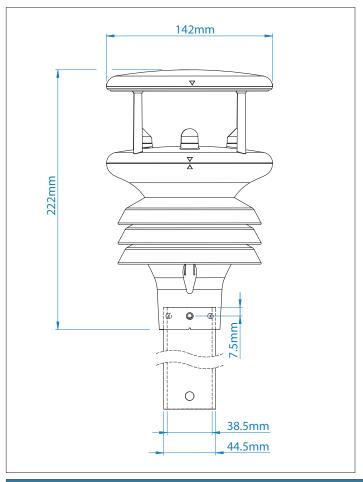


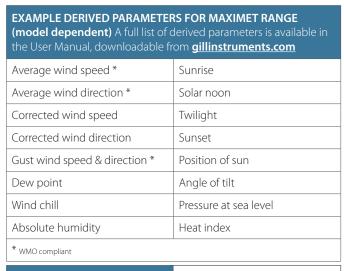




GMX500 Compact Weather Station

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





ACCESSORIES	MaxiMet* Accessories Datasheet Compact Weather Stations Relable, Figh quality compact, integrated weather stations
A list of the accessories available to support MaxiMet is provided on the MaxiMet Accessories Datasheet, which can be downloaded from gillinstruments.com	Manches results out to the agent of incomment. More common from the common fro

OTHER MA	AXIMET 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				
GMX301		Y		Υ		
GMX400		Y	Integrated optical rain sensor			
GMX501	Υ	Y		Υ	Y, as option	Option
GMX550	Υ	Y	Tipping bucket connector		Y, as option	Option
GMX551	Υ	Y	Tipping bucket connector	Y	Y, as option	Option
GMX560	Υ	Y			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.

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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.









GMX600 Compact Weather Station

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

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℃
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 PRESSUR	E CONTRACTOR CONTRACTO
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)
MECHANICAL	
Construction	UV stabilized thermoplastic

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

-40°C to +70°C

Fit to 44.45 mm (1.75 in) pole or mast

Fittings

Storage temp

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		
	Heating	Available as an option for operation in extremely low temperatures		

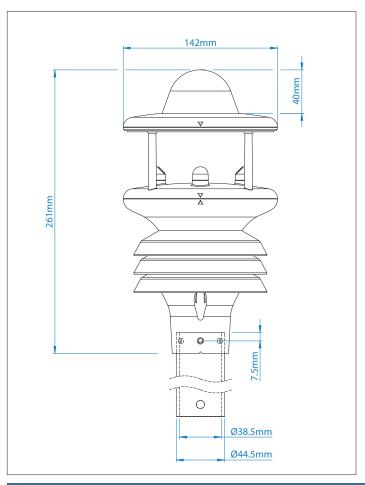






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XAMPLE DERIVED PARAMETERS FOR MAXIMET RANGE model dependent) A full list of derived parameters is available in ne User Manual, downloadable from gillinstruments.com							
Average wind speed *	Sunrise						
Average wind direction *	Solar noon						
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	Accessories Datasheet Compact Weather Stations Related trap auto compact strapped seather stations Accessories Datasheet Indicate trap auto compact strapped seather stations and the action accessories and accessories accessories and accessories and accessories and accessories and accessories accessories and accessories and accessories accessories and accessories accessories and accessories accessories and accessories accessories accessories and accessories accessories accessories accesso						

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A list of the accessories available to support MaxiMet is provided on the MaxiMet Accessories Datasheet, which can be downloaded from gillinstruments.com	tree professiones of baselog include. **Control of the Control of			

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		

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