



GMX300 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 GMX300 key features

Three measured parameters:

Temperature, humidity, pressure.

- Multiple additional derived parameters based on combining measured parameters, such as dew point, pressure at sea level and heat index.
- 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 GMX300 measures 3 parameters.



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







GMX300 Compact Weather Station

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AIRTEMPERATURE		
Range	-35°C to +70°C	
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 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
Average current consumption @ 12 VDC	5 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	0.5 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	

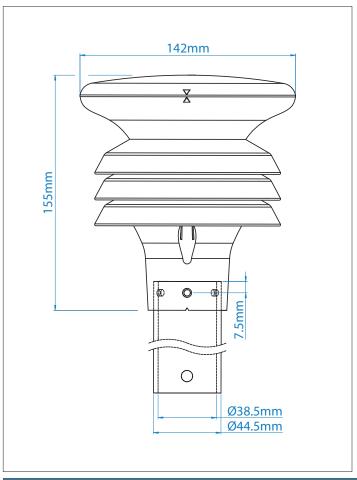
STANDARD EQUIPMENT (supplied with product)
MaxiMet product
Mating connector
MetSet software*, to set-up and configure MaxiMet (comms mode, measurement units, reporting intervals, derived parameters, etc.)
MetView software*, to view reported parameters
MaxiMet User Manual*
* downloadable from Gill Instruments website

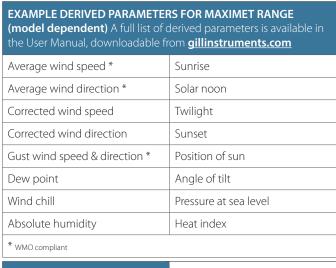




GMX300 Compact Weather Station

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





ACCESSORIES	MaxiMet* Accessories Datasheet Compact Weather Stations Relater tip duath compact, resegued weather stations
	MaxiVet weather stations are supported by a range of accessories. These occessories can be used to connect, install and marriana MaxiVet. The occessories have been designed, or selected to ensure the long term performance of MaxiVet products.
A list of the accessories available to support MaxiMet is provided on the MaxiMet Accessories Datasheet, which can be downloaded from gillinstruments.com	Concept (1967-ROS) Concept (1967-ROS
	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	
GMX301		Υ		Υ		
GMX400		Υ	Integrated optical rain sensor			
GMX500	Υ	Υ			Y, as option	Option
GMX501	Υ	Υ		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	Integrated optical rain sensor		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.









GMX400 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 GMX400 key features

Four measured parameters:

Temperature, humidity, pressure, rainfall (optical sensor).

- Multiple additional derived parameters based on combining measured parameters, such as dew point, pressure at sea level and heat index.
- 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 GMX400 measures 4 parameters including precipitation.



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







GMX400 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		

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 @ 12VDC	45 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	0.5 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

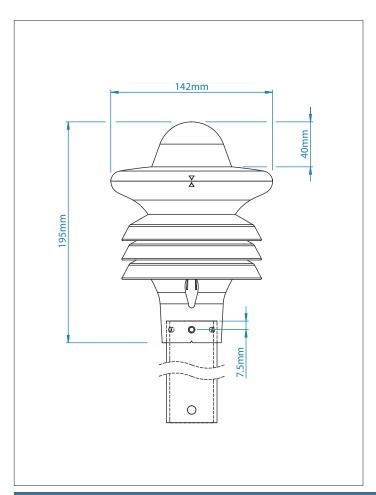
STANDARD EQUIPMENT (supplied with product)
MaxiMet product
Mating connector
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MetView software*, to view reported parameters
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* downloadable from Gill Instruments website





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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			

	MaxiMet* Compact Weather Stations	Accessories Datashee
ACCESSORIES	Reliable, high quality compact, integrated weather	r stations
	MaxiMet weather stations are supported by a range of aco These accessories can be used to connect, install and man The accessories have been designed, or selected, to ensu- tem performance of MaxiMet products.	tain MaxWet.
	ACCESSORES Committee to committee the beautiful committee to the second committee to the co	10000
A list of the accessories	Carriodo, to coared to water one is appeal set statuel on a	09019
This of the accessories	Cable, power 6-communications cable, 15 m with connector pine fitted and connector of a southful.	140516000
	Cubie for configuration, MaxiMet to USB for power & commit, 1 Birs	183 1866
available to support	Bracket for mounting to wall or diamping to gole	177896115
avalianie to suppoi t	Support subs 0.5m with great appeal mounting holes. Foile gauge ripoing budget for our with SWCSS & SWCSS.	19339000
	Cubin Maddet to fibring busing the rate of the	153 1400
Marcil Mat is provided an	Relat service; optical rain service for use with GMXSSS & GMXSSS	1953994073
MaxiMet is provided on	Cable, MaxiMetro optical rain sensor, 28m	183316064
	Connector, to coenect to MacMet Grift 550 & Ghift 551 for sain gauge fain sinsor connection	C2006416 (Maubot,
the MaxiMet Accessories	Sketike software" to coefigure AbsAfer Sketiken software", to view reported/paramiteers	* deveload from Gil instruments subcito
	Accessory Descriptions	
Datasheet, which can be	- Connector (1605-PK-069)	
Datasticci, Writeri Carr De	A replacement connector is available if required. The co	prestor is
	compatible with all MaxiMet models and is supplied wi	th pins.
	Cables for operational use The significable can be used to connect MassMet to on	
downloaded from		
downloaded from	remmunication. The cable can be used to connect wasked to po	Ha with nine
downloaded from	one 4 pair case can be used to connect sassivet to pol communication. The cable can be supplied as a 15m ca fixed (1403+10-001), or by the mere stx5603 150.	ble with pins
downloaded from	communication. The cable can be supplied as a 15m ca fixed (1405+0-080), or by the more (02603 156).	tile with piro
aownloaded from gillinstruments.com	communication. The cable can be supplied as a 15m cu fixed (1403+0-089), or by the merre 903603 1560. - Cable for setup/configuration (1957-10-065)	the with piro
	communication. The cable cash be supplied as a 15m ca fitted (1405+10-080), or by the more (13603-156). - Cable for setup/configuration (1957-10-065). The cable can be used to connect a MoviMet to a USB of	the with pins
	communication. The cable can be supplied as a 15m cs fixed (1485+0 698), or by the more (13661-1060). - Cable for set-up/configuration [13601-1060). The cable can be used to connect a Massifile to a USI compute. Using Medicit, the set-up of the Massifiet uniquested to suit a particular requirement. The coble is 1.000.	title with pins
	communication. The cable can be supplied as a 15m c of freed (405+6 0-00), or type more (200-20). - Cable for seleupirconfiguration (1957-10-065). The cable can be used to connect a MaxiMee to a USB compute. Using Mades the setting of the ManiMee use updated to suit a genitical requirement. The cable is a supplied with a MaxiMee connection connect and and to supplied with a MaxiMee to connection once and and a	title with pins section a train be limit long and
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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		
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	Y	Y, as option	Option
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