MaxiMet[®] Marine

GMX560 Compact Weather Station

High quality, easy-to-use, integrated weather station for marine applications

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 communication 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 for MaxiMet Marine GMX560

 Marine environments including: Marine buoys.

Unmanned surface vessels.

- Helidecks.
- Offshore wind farms.
- Low power deployments and IoT applications.

MaxiMet Marine key features

- MaxiMet Marine GMX560 provides 5 measured parameters: Wind speed & direction, temperature, humidity, pressure, optional heating, optional GPS function.
- IP68 and IP66 environmental protection.
- 6-axis compass.
- High quality, accurate, solid-state sensors.
- Compact design with robust construction.
- Multiple additional derived parameters.
- Optional integrated GPS capability available to provide location, GPS timestamp and calculation of true wind if the platform is moving.
- Commonly available connector suitable for corrosive environment.
- Optional low power heating.

Benefits

- Based on the GMX500, highly deployed in harsh marine applications, and now with additional environmental protection including temporary submersion.
- 6-axis compass compensates for tilt and provides pitch & roll data.
- No moving parts increases reliability and reduces maintenance requirements.
- Multiple output protocols offer a range of integration options.
- Easy to set up, integrate and install.

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MaxiMet Marine GMX560 combines IP68 environmental protection with high quality sensors for marine environments



(photo: Xylem DB1250 buoy) MaxiMet Marine's IP68 rating enhances performance in harsh weather conditions encountered by buoys and unmanned surface vessels



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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			
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	

BAROMETRIC PRESSURE					
Range	300 to 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					

WARKANTY	
Warranty	24 months

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			
Current spec @ 12 VDC	25 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	0.7 kg			
Connector type	M12 8-way			
ENVIRONMENTAL				
Protection class	IP66 & IP68			
Operating temp	-35°C to +70°C -40°C to +70°C with heating option			
Storage temp	-40°C to +70°C			
STANDARD EQUIPMEN	T (supplied with product)			
MaxiMet product				
Mating connector				
	up and configure MaxiMet (comms mode, rting intervals, derived parameters, etc.)			
MetView software*, to vie	ew reported parameters			
MaxiMet User Manual*				
* downloadable from Gill Instrur	nents 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

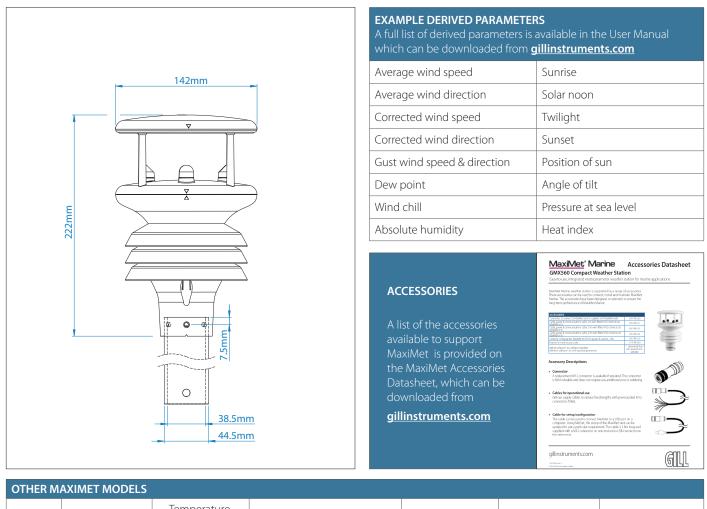
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Datasheet

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OTHER MAXIMET MODELS						
	Wind	Temperature, humidity, pressure	Rain	Solar	Compass, GPS	Low power heating
GMX200	Y				Y, as option	
GMX240	Y		Integrated optical rain sensor		Y, as option	
GMX300		Y				
GMX301		Y		Y		
GMX400		Y	Integrated optical rain sensor			
GMX500	Y	Y			Y, as option	Y, as option
GMX501	Y	Y		Y	Y, as option	Y, as option
GMX550	Y	Y	Tipping bucket connector		Y, as option	Y, as option
GMX551	Y	Y	Tipping bucket connector	Y	Y, as option	Y, as option
GMX600	Y	Y	Integrated optical rain sensor		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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