

GMX260 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 GMX260

- Marine environments including marine buoys and unmanned surface vessels.
- Helidecks.
- Ports and harbours.
- Offshore wind farms.
- Low power/solar powered deployments and IoT applications.

MaxiMet Marine key features

- MaxiMet Marine GMX260 provides 2 measured parameters:
Wind speed & direction, 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 such as gust (WMO compliant), average wind speed and corrected direction.
- 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.

Benefits

- Based on the GMX200, 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.
- Suitable for use with battery or solar systems in low power mode.



MaxiMet Marine GMX260 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
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, 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	28 mA continuous mode (std unit) +10 mA with GPS option 1.3 mA eco-power mode (no GPS, 1/ hour)

MECHANICAL	
Construction	UV stabilized thermoplastic
Fittings	Fit to 30 mm to 58 mm pole or mast
Weight	0.5 kg
Connector type	M12 8-way

ENVIRONMENTAL	
Protection class	IP66 & IP68
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 Marine 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)

