

GMX600 Compact Weather Station



The MaxiMet range of compact weather stations is designed and manufactured by Gill Instruments. MaxiMet products use reliable, high quality instruments to provide accurate meteorological information in a wide variety of applications.

GMX600 Features

Temperature, humidity, pressure. A combined instrument mounted inside three double louvered, naturally aspirated radiation shields with no moving parts. The results are high performance across each measurement over long periods of time.

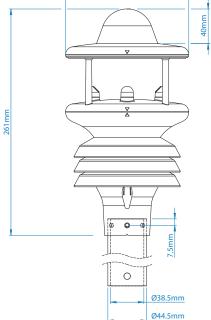
Wind. Wind speed and direction measurements are provided via an ultrasonic sensor and the addition of an electronic compass provides apparent wind measurements. Average speed and direction together with WMO averages and gust data is also provided. Add GPS (optional) to provide true wind and other features.

Precipitation. An integrated optical rain gauge that automatically senses water hitting its outside surface and provides measurements based on the size and number of drops. Algorithms interpret this data and simulate the output of a tipping bucket rain gauge in a serial format. The optical rain gauge has no moving parts associated with tipping bucket gauges.



TEMP, HUMIDITY & PRESSURE	PRECIPITATION	WIND	PARAMETERS
Air Pressure / Temperature	■ Rainfall total	Wind speed & direction	■ Temperature °C/°F/°K
 Relative / Absolute humidity 	 Rainfall intensity 	Apparent and true wind (with GPS)	■ Relative humidity % Rh, g/m³, g/kg
 Naturally aspirated UV stable 	■ Rainfall Y/N	 WMO wind averages and gust 	■ Barometric pressure hPa, bar, mm Hg
Radiation shield	 Emulated tipping bucket 	■ Compass	■ Absolute humidity g/m³
 Protection against wind-blown precipitation/dust 	Integrated heaterNo moving parts	 GPS (optional) gives height above sea level, latitude and longitude 	■ Precipitation mm/hr, mm/total, mm/24 hr in/hr, in/total, in/24 hr
			■ Wind speed
		GPS (OPTION)	m/s, km/hr, mph, kts, ft/min
142mi	n i	■ Height above sea level <i>m</i>	Wind direction °True/apparent wind
	E	Sunrise/sunset	Outputs
	40m	Position of the sun	RS232, 422, 485 (ASCII), SDI-12, NMEA,
		■ Twilight	MODBUS, Analogue (option)

MSL pressure



All MaxiMet Models Feature

- Quality Measurements
- Lightweight and Robust
- Low Power Mode
- Free of Charge Software
- Gill Proven Reliability
- Compact Integrated Design
- Real Time Output
- Easy Installation
- Bluetooth Service Port
- Gill Customer Support
- 2 Year Warranty



Applications

- Building and Industrial Controls
- Authorities
- Transport

- Coastal
- Agricultural
- Safety

- Educational
- Commercial
- Energy

WIND SPEED	
Range	0.1 m/s to 60 m/s
Accuracy	± 3% to 40 m/s, ± 5% to 60 m/s
Resolution m/s	0.01
Starting Speed	0.1 m/s
Sampling Rate	1 Hz
Units	m/s, km/hr, mph, kts, ft/min

WIND DIRECTION		
Range	0-359°	
Accuracy	± 3° to 40 m/s ± 5° to 60 m/s	
Resolution	1°	
Sampling Rate	1 Hz	
Units	Degrees	

TEMPERATURE		
Range	-40°C to +70°C	
Resolution	0.1	
Accuracy	± 0.3°C @ 20°C	
Sampling Rate	1 Hz	
Units	°C, °F, °K	

HUMIDITY	
Range	0-100%
Resolution	1%
Accuracy	± 2% @ 20°C (10%-90% RH)
Sampling Rate	1 Hz
Units	% Rh, g/m3, g/Kg

DEW POINT	
Range	-40°C to +70°C
Resolution	0.1
Accuracy	± 0.3°C @ 20°C
Units	°C, °F, °K
Sampling Rate	1 Hz

PRESSURE	
Range	300 to 1100
Resolution	0.1 hPa
Accuracy	± 0.5 hPa @ 25°C
Sampling Rate	1 Hz
Units	hPa, bar, mmHg, inHg

PRECIPITATION	
Measurement type	Optical
Range	0-150 mm/hr
Precipitation Resolution	0.2 mm
Accuracy	2%
Sampling Rate	1 Hz
Units	mm/hr, mm/total, mm/24 hr, in/hr, in/total, in/24 hr
Heating	YES

OUTPUTS	
Output rate	1/s, 1/min, 1/hr
Digital Comms Modes	Serial RS232, RS422, RS485, SDI-12, NMEA, MODBUS, ASCII
Analogue Outputs	Available via separate optional device

POWER	
Power Supply	5 to 30 Vdc
Power (Nominal) 12 Vdc	80 mA continuous high mode. 0.05 mA eco-power mode (1 hour polled)

ENVIRONMENTAL CONDITIONS		
IP Rating	66	
Operational Temperature Range:	-40°C to +70°C	
EMC Standard:	BS EN 61326 : 2013 FCC CFR47 parts 15.109	
CE Marking	YES	
RoHS compliant	YES	
Weight	0.8 Kg	
Origin	UK	

Specifications may be subject to change without prior notice





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