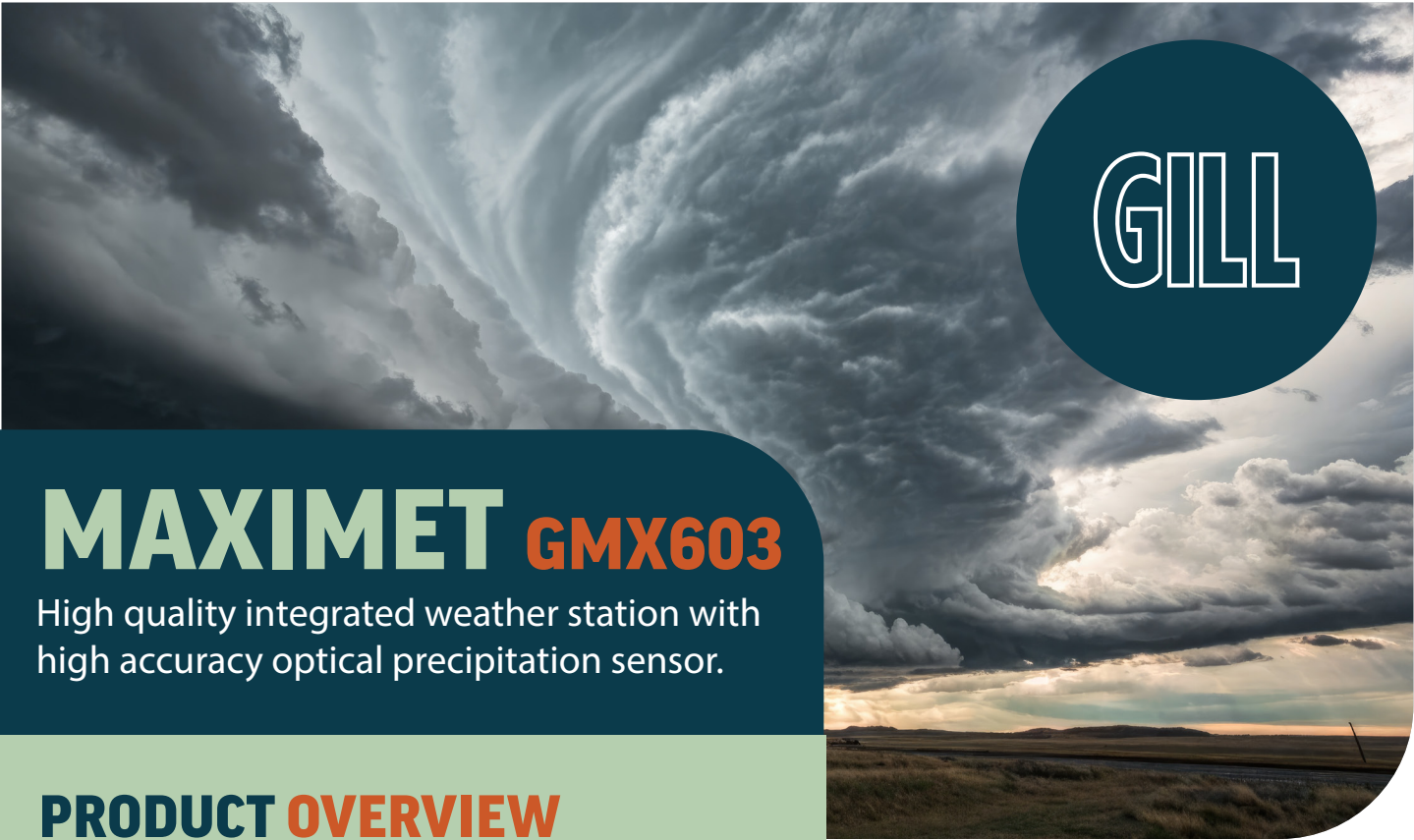




MAXIMET **GMX603**

High quality integrated weather station with high accuracy optical precipitation sensor.

PRODUCT OVERVIEW

MaxiMet compact weather stations are 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.

The MaxiMet GMX603 includes integrated high accuracy optical precipitation sensor TruMet PW100. Designed with no moving parts, it replicates the output of a conventional tipping bucket, without the burden of maintenance or recalibration.

KEY FEATURES & BENEFITS

- 01** Six measured parameters: wind speed & direction, temperature, humidity, pressure, rainfall.
- 02** Multiple additional derived parameters, such as gust, average wind speed and dew point.
- 03** High quality, accurate, solid-state sensors. 2-axis compass.
- 04** Optional integrated GPS and optional low power heating.
- 05** Simple to install, set up and integrate with user-friendly software.
- 06** Long operational life, with a compact, robust design and low-maintenance sensors.
- 07** Suitable for use with battery or solar systems in low power mode

TYPICAL APPLICATIONS

- Smart buildings
- Agriculture and industry
- Environmental monitoring
- Solar plant performance - in adherence to IEC 61724-1 (2021)
- Transport and safety
- Low power/solar powered deployments
- IoT applications



MaxiMet GMX603 measures liquid precipitation using high accuracy optic technology.

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TECHNICAL SPECIFICATION

Wind Speed

Range	0 - 60 m/s (116 knots)
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 (0.02 knots)
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° + -70°C with heating
Accuracy	±0.3°
Resolution	0.1°C
Units of measurement	°C, °F, K

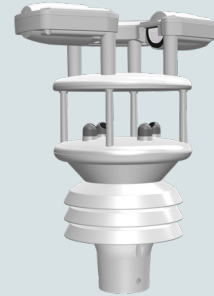
Barometric pressure

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

Relative humidity

Range	0-100% RH
Accuracy	typically ±2% RH across full range
Resolution	0.1% RH
Units of measurement	% RH, g/m3

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Precipitation

Measurement Type	Optical
Accuracy	≤ 5%
Resolution	0.1 mm
Measurement Surface Area	66 x 20 mm
Intensity Range	0 to 200 mm/hr
Units of Measure	Mm/hr, mm total, in/hr, in total
Precipitation Types	Liquid precipitation

Outputs

Digital comms	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
Option 1, 2 & 3 protocols	ASCII, NMEA 0183

Power requirement

Input voltage	5-30 VDC (10-30 VDC heated models)
Average current consumption @ 12 VDC	50 mA continuous mode (std unit) 400 mA total with heating option +9 mA with GPS option

Operational

Warranty	24 months
Factory calibration	Traceable to National Standards

* Download software free from gillinstruments.com

** 2-wire is point-to-point only

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TECHNICAL SPECIFICATION

Mechanical

External	UV stabilised thermoplastic
Size	Fit to 44.45 mm (1.75 in) pole or mast
Weight	1.1 kg
Connector type	8-way M12 connector

Environmental

Protection class	IP66
Operating	-35°C to +70°C / -40°C to +70°C
Storage temperature	-40°C to +70°C

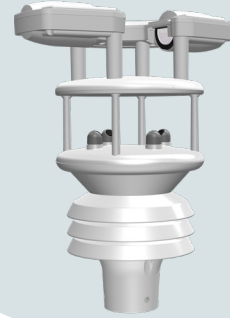
Standard equipment (supplied with product)

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

MaxiMet®

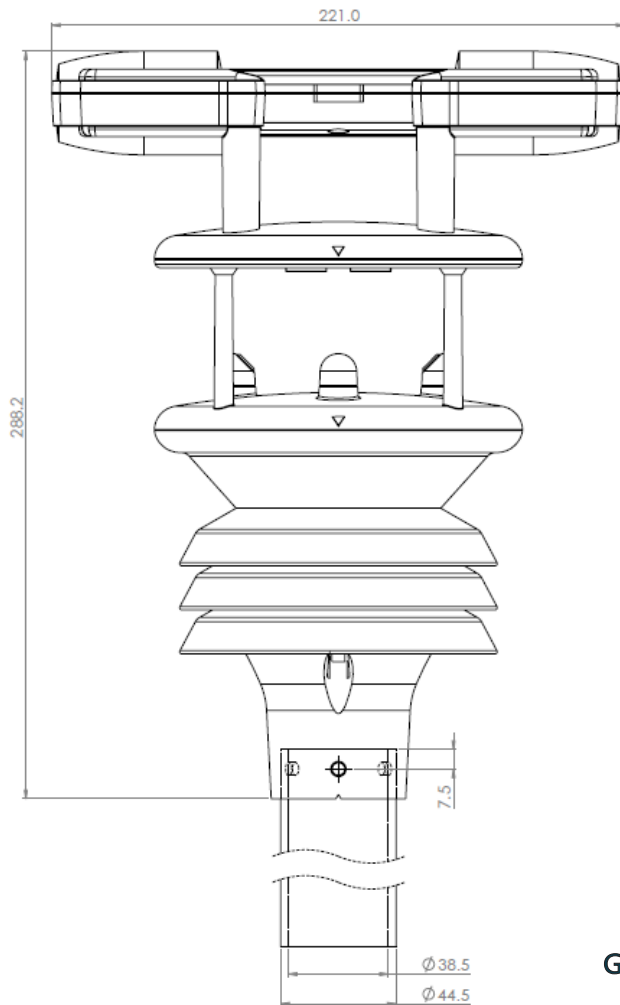


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Designed and manufactured in the UK by Gill Instruments Limited. Specifications may be subject to change without prior notice.



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MORE INFO

For more information about Gill's MaxiMet range, please email contact.gi@gill.group