



GILL

MAXIMET GMX552

High quality, easy-to-use, integrated weather station for heat stress monitoring.

PRODUCT OVERVIEW

MaxiMet GMX552 combines accurate heat stress monitoring with reliable environmental measurement in one compact, easy-to-use system.

Robustly designed for demanding outdoor environments, it measures key parameters including WBGT (Wet Bulb Globe Temperature), thermal work limit (TWL), wind, temperature, humidity and pressure, helping organisations protect people, maintain productivity and make informed safety decisions in real time.

KEY FEATURES & BENEFITS

- 01** Six measured parameters: black globe temperature, wind speed & direction, temperature, humidity, pressure, optional GPS function.
- 02** Calculates WBGT and TWL heat stress indexes
- 03** Wet bulb sensor can be added for increased accuracy.
- 04** High quality, accurate, solid state sensors.
- 05** 2-axis compass.
- 06** Optional integrated GPS
- 07** Simple to install, set up and integrate with user-friendly software.
- 08** Long operational life, with a compact, robust design and low-maintenance sensors.

TYPICAL APPLICATIONS

- Worker safety
- Construction sites
- Agriculture
- Manufacturing and industry
- Sports events
- Environmental warning systems
- Systems for transport and safety
- Parks and recreation sites
- Low power/solar powered deployments
- IoT applications



MaxiMet®

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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

Black globe temperature sensor

Range	-35°C to +120°C EN60068-2-2
Accuracy	±0.5°C
Resolution	1°
Units of measurement	°C (default), °F, K

Air temperature

Range	-35°C to +70°C
Accuracy	±0.3°
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

Operational

Warranty	24 months
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Barometric pressure

Range	300-1250 hPa
Accuracy 900-1100 hPa, 25-40°C	Absolute (typically) ±0.4 hPa Relative (typically) ±0.08 hPa
Resolution	0.1hPa
Units of measurement	hPa, mbar, mmHg, inHg

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

Power requirement

Input voltage	5-30 VDC
Average current consumption @ 12 VDC	26 mA continuous mode (std unit) +9 mA with GPS option 1.3 mA eco-power mode (no GPS, 1 hr)

Mechanical

External	UV stabilised thermoplastic
Size	Fit to 44.45 mm (1.75 in) pole or mast
Weight	1.29 kg
Connector type	9-way clipper connector

Environmental

Protection class	IP66 EN60529:1992
Operating temperature	-35°C to +70°C
Storage temperature	-40°C to +70°C
Vibration	EN60945:2002
Blown sand	EF STAN 00-35, pt 3, iss 4, Test CL25
Salt spray (black globe)	EN60068-2-52, EN60945:2002
Paint adhesion (black globe)	ISO 2409

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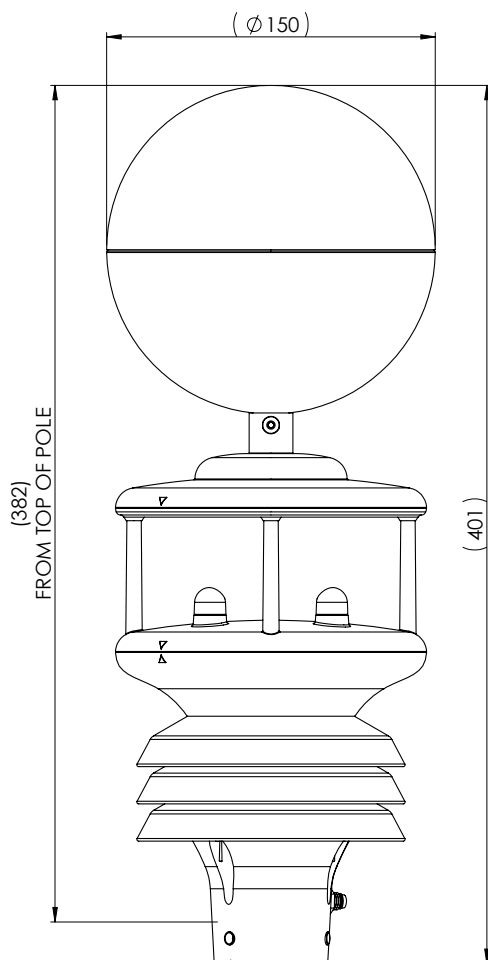
High quality, easy-to-use, integrated weather station for heat stress monitoring.

TECHNICAL SPECIFICATION

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 www.gillinstruments.com

** Download software free from gillinstruments.com



Designed and manufactured in the UK by
Gill Instruments Limited.

Options

GPS	Available as an option. Enables reporting of location, height, real time clock, true wind (for vehicle mounting applications)
Wet bulb temperature sensor	Available as an accessory to increase WBGT measurement accuracy

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
Wet bulb globe temperature	
Thermal work limit	

* WMO compliant

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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	
GMX260	Y				Y 6-axis, as option	
GMX300		Y				
GMX301		Y		Y		
GMX400		Y	Integrated optical rain sensor			
GMX500	Y	Y			Y, as option	Option
GMX501	Y	Y		Y	Y, as option	Option
GMX550	Y	Y	Tipping bucket connector		Y, as option	Option
GMX551	Y	Y	Tipping bucket connector	Y	Y, as option	Option
GMX560	Y	Y			Y 6-axis, as option	Option
GMX600	Y	Y	Integrated rain indicator		Y, as option	Option
GMX603	Y	Y	Integrated rain sensor		Y, as option	Option



1957-033 Issue 3
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MORE INFO

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