GMX400 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.

GMX400 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.

**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
- Air Pressure / Temperature
- Relative / Absolute humidity
- Naturally aspirated UV stable radiation shield
- Protection against wind-blown precipitation/dust

### PRECIPITATION
- Rainfall total
- Rainfall intensity
- Rainfall Y/N
- Emulated tipping bucket
- Integrated heater
- No moving parts
- 0.08mm tip Optical Rain Gauge (customer selectable)

### PARAMETERS
- Temperature °C/°F/°K
- Relative humidity % Rh
- Barometric pressure hPa, mbar, mm.Hg, in.Hg
- Absolute humidity g/m³
- Precipitation mm/hr, mm/total, in/hr, in/total
- Wet bulb temperature °C/°F/°K
- Angle of Tilt
- Outputs RS232, 422, 485 (ASCII), SDI-12, NMEA, MODBUS, Analogue (option)

### GPS (MANUAL)
- Height above sea level m
- Sunrise/sunset
- Position of the sun
- Twilight
- Solar Noon
- MSL pressure

* Please see the manual for a full list of derived parameters

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**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
- Gill Customer Support
- 2 Year Warranty
Applications

- Building and Industrial Controls
- Coastal
- Educational
- Authorities
- Agricultural
- Commercial
- Transport
- Safety
- Energy

**Temperature**

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

**Pressure**

- **Range**: 300 to 1100 hpa
- **Resolution**: 0.1 hPa
- **Accuracy**: ± 0.5 hPa @ 25°C
- **Sampling Rate**: 1 Hz
- **Units**: hPa, mbar, mmHg, inHg

**Humidity**

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

**DeW Point**

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

**Precipitation**

- **Measurement type**: Optical
- **Range**: 0 to >300 mm/hr
- **Precipitation Resolution**: 0.08 mm
- **Repeatability**: 3%
- **Sampling Rate**: 1 Hz
- **Units**: mm/hr, mm/total, mm/24 hr, in/hr, in/total, in/24 hr
- **Heating**: YES

**Power**

- **Supply**: 5 to 30 Vdc
- **Power (Nominal)**: 12 Vdc
- **Power (Nominal) Mode**: 45 mA continuous high mode, 0.7 mA eco-power mode (1 hour polled)

**Environmental Conditions**

- **IP Rating**: 66
- **Operational Temperature Range**: -40°C to +70°C
- **EMC Standard**: BS EN 61326-2-1:2013, FCC, CFR Title 47, Part 15, Subpart B, Class A digital device
- **CE Marking**: YES
- **RoHS Compliant**: YES
- **Weight**: 0.5 Kg
- **Origin**: UK

Specifications may be subject to change without prior notice.