



## General Purpose Weather Station

**Met One Instruments, Inc.'s General Purpose Weather Station is specifically designed for monitoring ambient meteorological conditions.**

The General Purpose Weather Station includes high quality meteorological sensors, all required signal cables and mounting hardware, an expandable tripod, and a data acquisition system or signal translator. The system is can be powered by AC or DC power, or an optional solar panel power system.

It is available in pre-packaged configurations for fastest delivery, and is easily customized with additional sensors and accessories to suit many measurement applications.

### Measurements

- Wind speed
- Wind direction
- Ambient temperature
- Relative humidity
- Barometric pressure
- Rain (option)
- Solar radiation (option)



### Benefits and Features

- Pre-configured systems for quick shipment
- Fully customizable upon request
- Low power draw from AC, DC or solar supply
- WMO and EPA compliant sensors
- Quick deployment tripod with extendable 10FT mast
- Quick and easy installation by one person
- Ethernet, serial RS-232/RS-485/MODBUS and analog 0-1V/0-5V/4-20mA outputs options.



## Specifications

## General Purpose Weather Station

### 034B Wind Sensor (speed and direction):

- Wind speed range: 0 to 75 m/s (0 to 167 mph)
- Wind speed accuracy:
  - $\pm 0.1$  m/s or  $\pm 1.1\%$  of reading whichever is greater.
- Wind direction range:
  - 0° to 360° mechanical
  - 0° to 356° electrical
- Wind direction accuracy:  $\pm 4^\circ$
- Starting threshold: 0.4 m/s (0.9 mph)

### 597A Temperature/Humidity/Pressure Sensor

#### Temperature

- Element: platinum RTD class 1/3B
- Range: -50°C to +70°C (-58°F to 158°F)
- Accuracy:  $\pm 0.20^\circ\text{C}$  (0.36°F)
- Resolution: 0.01°C

#### Relative Humidity

- Element: thin film polymer capacitor
- Range: 0 to 100% RH
- Accuracy:  $\pm 2\%$  from 0 to 100% RH
- Resolution: 0.1%

#### Barometric Pressure

- Element: solid state transducer
- Range: 500 to 1100 hPa
- Accuracy:  $\pm 0.5$  hPa

### 370D Rain Gauge(option)

- Element: magnetic reed switch
- Orifice: 8.0-in (20.3 cm) diameter
- Accuracy:  $\pm 1\%$  @ 3.0-in per hr
- Resolution: 0.01-in standard (0.2 mm or 0.25 mm optional)

### 094 Solar Radiation Sensor (option)

- Element: silicon solar cell
- Range: 300-2800 nanometers
- Accuracy:  $\pm 3\%$
- Response time: <16 seconds (95%)

### 580 AutoMet Data Logger:

- Simple user interface
- Flexible I/O built in:
  - USB serial
  - RS-232 serial
  - MODBUS RS-485
  - Ethernet
  - 12 CH analog outputs
- Real time cloud data viewing and retrieval when paired with optional cell modem.

### Communications and Power Options:

- MAX-911 cellular digital modem kit for GPRS or CDMA.
- MAX-991 spread spectrum radio kit (900 MHz, requires line of site).
- MAX-140 solar power system Includes 40W panel and 36Ahr battery in NEMA enclosure.

### Software:

- WeatherView archiving and display software.
- AIR PLUS data logger support software provides simple remote data retrieval, viewing, and exporting.

*Specifications are subject to change at any time.*