

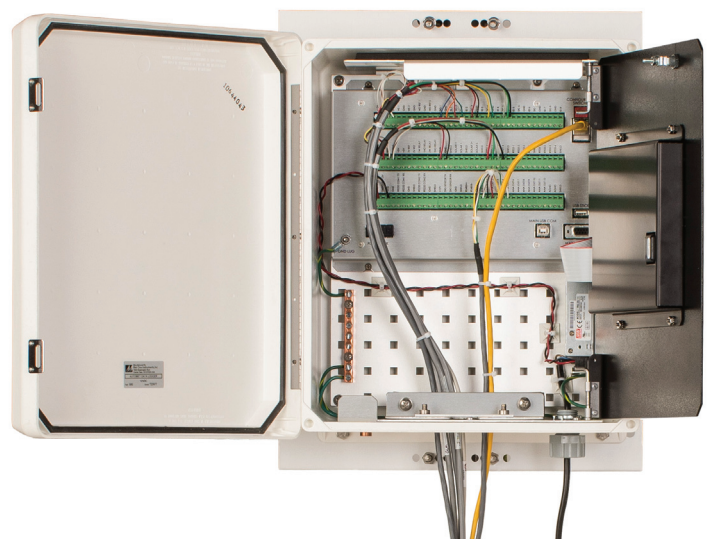
 **Met One Instruments, Inc.**

## AutoMet 580 Data Collection Platform

As always, Met One Instruments, Inc. provides your AutoMet based weather stations pre-wired, preprogrammed and pre-tested at no extra charge to get your site up and running faster.

### Features

- Powerful connectivity:  
Ethernet, MODBUS, 12 analog outputs, USB, RS-232C, RS-485
- Statistical calculations:  
Avg, min, max, delta, STD DEV, dewpoint & more
- Matched pyranometer inputs:  
For global horizontal & plane of array measurements
- PT-100 platinum temperature inputs:  
For ultra-accurate and wide range temperature measurements.



### Applications

- Ambient Air Monitoring
- Environmental Surveys
- Government Monitoring Networks



## Specifications

## AutoMet 580 Data Collection Platform

### Analog Sensor Inputs

8 single ended 0-2.5 or 0-5 VDC, with Auto ID sensor option. 2 24BIT matched millivolt level solar radiation sensor inputs. 3 channels PT-100 RTD temperature inputs. 24BIT, 4-wire.

### Counter Inputs

2 wind speed counters (frequency selectable as low range, high range, or low AC millivolt)

1 rain gauge channel (de-bounced switch closure)

### Digital Sensor Inputs

1 digital sensor, up to 8 parameters. RS232 or RS485. Supported Met One Instruments, Inc. digital sensors include but are not limited to:

AIO 2

MSO-232

597A

TACMET II

### Voltage Outputs

12 voltage output channels

16 bits unipolar

5.000VDC full scale

(Can be scaled to 1.000 or 2.500 VDC full scale)

+/- 4 millivolts accuracy (of expected reading).

### Alarm Outputs

2 alarm channels with N.O. relay contacts

(Max. power 24 VDC at 20 mA)

### Communication

Ethernet serial port, 1200-115200 baud

(Default 9600), ASCII, N,8,1

USB for computer communications; shared port with

Main RS-232C port

RS-232C main serial port, 1200-115200 baud

(default 9600), ASCII, N,8,1

Printer or computer RS-232C (COM2), 1200-115200 baud

(default 9600), ASCII, N,8,1;

Digital sensor RS232 9600 baud fixed

RS-485 output or digital sensor input, 9600 baud

RS-232 Extra port 1200-115200 baud

### Communication Protocols

MODBUS

7500 MetRecord protocol for digital sensors

UIM serial report string

### Log Channels

16 logging channels (combination of digital and analog measurements, and calculated values).

### Logging Data Capacity

1min data 7.2 days

5min data 36 days

10min data 72 days

15min data 108 days

30min data 216 days

60min data 433 days (1.2 years)

### Power Requirement

15VDC  $\pm$  20%

50 mA or less (display off)

125mA (display on)

### Power Source

120-240VAC, 50-60Hz to 12VDC power supply (included) Solar panel array and battery (optional)

Battery and AC powered charger (optional)

### Display

Backlit LCD with auto time-out

40 character width

8 lines

### Keypad

Four operation selection keys

Four motion selection keys

Four function selection keys

### Environmental

Temperature range: -20°C to +60°C

(extended range available)

Humidity: 0-100%, non-condensing

### Dimensions

15.5 in (387 mm) high 13.5 in (343 mm) wide

6.8 in (178 mm) depth

### Weight

Weight 7.8 lbs (3.5 kg)

*Specifications are subject to change at any time.*