

AutoMet 580 Data Collection Platform

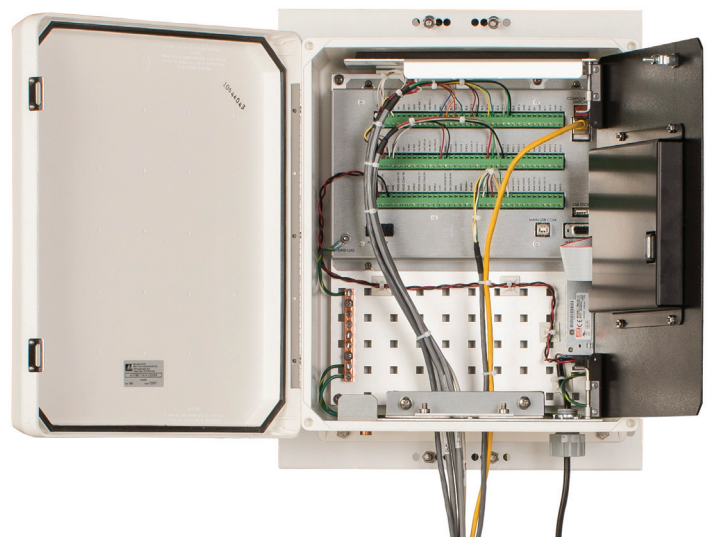
Flexible - Powerful - Reliable

New 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.

Shipped Ready To Install:

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.



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Specifications

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)



Met One
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Measurements & Specifications (continued)

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
597
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)

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