DORGEAN
Beijing Dorgean Electronic Technology Co.,Ltd

Instrument Expert
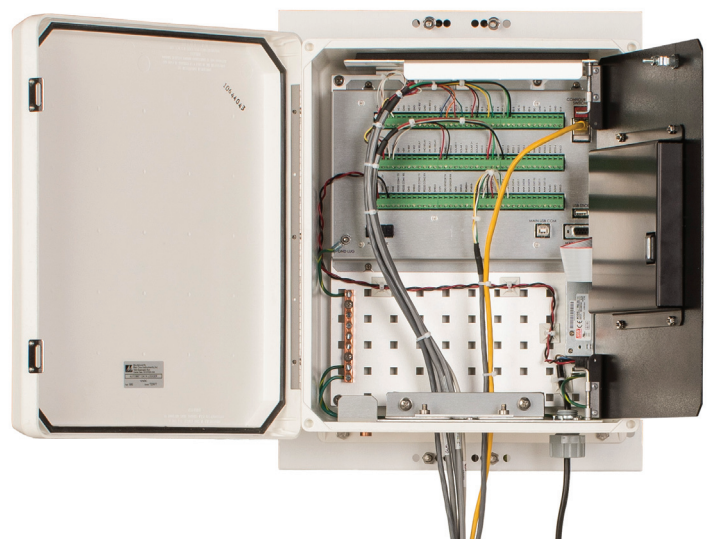**Original factory packaging**
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Met One Instruments,Inc.

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

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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 ± 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.

Met One Instruments, Inc.