The MET3 and MET3A Meteorological Measurement Systems provide high accuracy data from barometric pressure, temperature, and relative humidity sensors. Pressure resolution is better than 1 microbar with a total accuracy of 0.08 hPa over the extended barometric range of 620 to 1100 hPa. Temperature resolution is 0.01 degree C. The fan-aspirated MET3A has a total temperature accuracy of 0.1 degree C over the full temperature range of –50 to +60 degrees C. Relative humidity performance is better than 2% at 25 degrees C, and humidity recovery time for the MET3A after 100% water saturation is less than 2 minutes.

These fully-integrated systems are housed in environmental enclosures allowing stand-alone, indoor or outdoor mounting. Installation hardware and software are included, and optional interface cabling is available for easy system integration. The MET3 radiation shield protects the temperature and humidity sensors from precipitation and solar radiation. The MET3A utilizes a high performance, tuned barometric pressure port to reduce dynamic pressure errors caused by wind.

Microprocessor-based electronics provide fully temperature compensated and linearized outputs via a two-way RS-232 interface. The serial interface allows complete remote configuration and control of all operating parameters including resolution, sample rates, choice of engineering units, integration time, and sampling commands. Individual measurement parameters or a "unified" data word with all sensor outputs are easily interfaced with computer systems, GPS receivers, and data loggers.

The Digiquartz® barometer used in the MET3 and MET3A has a 3 year stability warranty of better than 0.1 hPa per year. It includes a limited 5-year warranty with the first 2 years covered at 100%. The System includes a limited one year warranty.
Barometric Pressure, Temperature, Humidity Measurements

CHARACTERISTICS

PRESSURE
Performance - ±0.08 hPa
Stability - Better than 0.1 hPa per year
Range - 620 - 1100 hPa (9 - 16 psia)

TEMPERATURE
Performance - MET3: Better than ±0.5° C
MET3A: Better than ±0.1° C
Stability - Better than 0.1° C per year
Range - -50°C to +60°C (-58 °F to +140 °F)

HUMIDITY
Performance - Better than ±2% RH
Stability - Better than 1% per year
Range - 0 to 100% noncondensing
Recovery Time - Less than 2 minutes (MET3A)

ENVIRONMENTAL
Maximum Pressure ......................1240 hPa (18 psia)
Calibrated Temperature Range .............-50°C to +60°C
Power Requirements .....................Operates from 7 to 16 VDC
Nominal current consumption .............35mA (MET3)
@ 7VDC (Recommended) .................120 mA (MET3A)

Weight ................................MET3: 4.5 lb (2.1 Kg)
.........................................MET3A: 9.2 lb (4.2 Kg)

ORDERING INFORMATION
MODEL NO. PART NO.
MET3  1477-005
MET3A 1539-004

ACCESSORIES
Setup and Configuration Software (included)
AC adapter and interface cables (optional)

Paroscientific, Inc.
4500 148th Ave. N.E.
Redmond, WA 98052
Tel: (425) 883-8700
Fax: (425) 867-5407
http://www.paroscientific.com
E-Mail: support@paroscientific.com