

**200M Meteorological System**

**APPLICATION:** The *Model 200M* Meteorological Humidity System is designed to monitor the dew point of outdoor ambient environments when the absolute accuracy, long life, and NIST traceability of a primary standard method- chilled mirror, is required. The unit (based on COM.AIR electronics package) continuously “self-calibrates” using the automatic balance control (or manual balance control) of the optics. Any drift is automatically “zeroed out”. The unit is the primary choice for critical dew point measurements at air ports, nuclear power plants, automotive test facilities, research facilities, meteorological facilities, observatories, agricultural stations, and government facilities.



**DESCRIPTION:** The System consists of three parts: Sensor module (this gets mounted atop a pole or to the side of a building/ structure by the customer), the interconnecting signal cable, and the Analyzer control module. The system may be configured to also measure RH%, temperature and barometric pressure.



**ANALYZER CONTROL MODULE:** The analyzer control module is based on the COM.AIR electronics package and is housed within a NEMA 4 enclosure. It provides a local display of dew point and either 4-20mA or 0-5 VDC analog output. Also provided is a relay contact for clean mirror alarm (if the mirror is contaminated beyond normal operation, the alarm will trigger).

**SENSOR MODULE:** The Sensor Module is mounted within a Weather Resistant chassis that can be mounted atop a pole (customer supplied pole) or to the side of buildings or other structures. The sensor module contains an aspirated 2-stage D-type chilled mirror sensor that constantly recirculates outside air to be measured.

**INTERCONNECTING SIGNAL CABLE:** A standard 25 ft. sensor cable serves as interface between the Analyzer and the sensor module.

The system includes an instruction manual and 1 year warranty.

BASE PRICE OF THE 200M:..... **\$ 7,948.00**

**\*DS2 (two stage) Chilled Mirror sensor included.**

**TO ORDER THE Model 200M:**

- a. Determine type of measurement: DewPoint, Relative Humidity, Air Temperature, Barometric Pressure Grains per Pound, or Wet Bulb. The AT temperature probe is required for Relative Humidity.
  - b. Determine options such as special 4-20mA scaling, air flow measurement, or RS-232 serial interface.
1. List as separate line items additional choices such as Accessories, Calibration Packages, and Ext Warranty.

**200M-DS2 -**  **-**   
OPTIONS OPTIONS

For Ex: **200M-DS2-AT-AF** would be a 200M with DS2 sensor (w/ chrome mirror), air temperature probe, Air Flow Sensor and 25 foot signal interface cable between the control module and Aspirator (sensor module)

$$\underline{\$7,948} + \underline{\$358} + \underline{\$545} = \underline{\$8,851.00}$$

**Notes:**

1. The air flow sensor detects aspirator failure and posts an alarm condition at the display on the control module.
2. The AT sensor option is mounted inside the Aspirator module.

**Psychrometric Variables Options:**

<b>-AT</b>	Ambient Temperature-RH% kit. Includes, AT board & probe and (1) analog output **Please specify if you would like RH% or Air Temp displayed <u>AND</u> Choose between analog voltage (0-5vdc) or 4-20mA output <u>AND</u> Choose between RH% or Air Temp configured analog output	<b>\$ 358.00</b>
<b>-BP</b>	Barometric Pressure Option. This feature uses the same option board as in the -AT Option. Please specify if an analog output is desired. Please consult factory on this option.	<b>\$ 1,495.00</b>
<b>-GR</b>	Grains per pound output, fixed pressure @ 1 atmosphere	<b>\$ 165.00</b>
<b>-WB</b>	Wet Bulb temperature measurement, (requires <b>-AT</b> option)	<b>\$ 165.00</b>

**Additional Options:**

<b>-XCB</b>	Additional sensor interconnecting cable length . Max 200' total - \$5.00/ foot after first 25'	<b>\$ 5.00/FT</b>
<b>-AF</b>	Air Flow Switch	<b>\$ 545.00</b>
<b>-RS</b>	RS232 connection	<b>\$ 165.00</b>
<b>-WB</b>	Wet Bulb temperature measurement, (requires <b>-AT</b> option)	<b>\$ 275.00</b>
<b>511 SS Tag</b>	STAINLESS STEEL IDENTIFICATION TAG, can be riveted or wire connected to the instrument, CUSTOM ETCHED PER CUSTOMER REQUIREMENTS 1" High x 2" Wide x 16 gage SS Tag, Laser Etched, ¼ inch H lettering, 3 lines Advanced Graphic Engraving (includes 2)	<b>\$ 125.00</b>
<b>CASE1730</b>	Foam lined transportation case specified to protect instrumentation during shipping	<b>\$ 750.00</b>
<b>RSCBL</b>	RS-232 Single Ended Serial Cable for interface	<b>\$ 45.00</b>
<b>USB</b>	Converts the RS-232 serial output to USB (includes device plus software- PC compatible)	<b>\$ 110.00</b>

**Extended Warranty/Calibration Options: Please list as separate line items:**

<b>3EXTW</b>	3 Year Extended Warranty includes repairs covered in the warranty statement	<b>10% of TOTAL PRICE</b>
<b>3YNIST1P</b>	3 NIST Traceable Calibrations for the price of 2 (1 Parameter)	<b>\$ 1,210.00</b>
<b>3YNIST2P</b>	3 NIST Traceable Calibrations for the price of 2 (2 Parameters)	<b>\$ 1,430.00</b>


**CSSE1730**

**RSCBL**

**USB**
