

SENTINEL Low Cost Moisture Transmitter

APPLICATION: The SENTINEL is a low-cost solution to moisture monitoring.

Common applications for its use include:

- High Purity Welding Glove Boxes
- Moisture sensitive chemical or pharmaceutical storage chambers
- Mid-Range trace moisture process measurement
- Lithium Battery Manufacture
- Drying operations

DESCRIPTION: A multi-Sense smart sensor probe is inserted into the process measuring point and is connected to the Display Control Module via a quick connect signal cable. The SENTINEL provides a local display of measured PPMv, DewPoint, Pressure and Temperature. It also includes:

- 2 adjustable relay alarms
- 2 Adjustable Analog outputs (4-20mA)
- Serial Port for field adjustment of alarms, analog outputs,...

Although the resolution and lowest detectable limit does not match the specifications of the Edgetech Instruments chilled mirror, aluminum oxide, or Faraday Cell- the Sentinel offers:

- Very fast response time (from 25,000 PPMv down to under 500 PPMv in less than 2 minutes)
- Can monitor both high and low levels of moisture
- Very compact packaging
- Insertion style sensor probe w/ a multi-sense polymer sensor
- Sensor probe can measure Rh%, Temp, and Press
- Automatically converts measurement to read in PPMv
- **LOW COST**

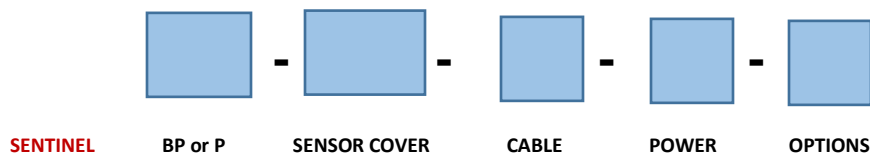


The base unit may be configured to monitor absolute pressure or barometric pressure. Ambient pressure systems should be configured with the Barometric pressure sensor for the greatest accuracy. The Sentinel probe is configured with a smart sensor tip. The sensor tip is protected by a sintered metal filter cartridge. Both the filter and the sensor tip are replaceable. The probe may be directly inserted into process measurement points or may be coupled with a variety of application oriented sampling accessories for very flexible installation. Includes instruction manual and one year warranty.

NOTES:

1. The standard Sentinel probe comes with ½ male NPT penetration fitting. Other sizes available (3/4, 1”).
2. Standard Power is 24 VDC. Optional universal VAC power adapter.
3. For diffusion sampling, the standard Sentinel probe comes with Diffusion Tip (perforated Aluminum Cover over the sensor tip). For Flow through sampling, use the sintered metal filter covered sensor tip.
4. Unit displays PPMv, pressure, dewpoint, and temperature.

TO ORDER THE SENTINEL:



1. **Select Sentinel sensor probe pressure type**

SENTINEL-BP	Includes Barometric Pressure Sensor to calculate PPMv	\$ 2,182.00
SENTINEL-P	Includes Absolute Pressure Sensor to calculate PPMv	\$ 2,132.00

 2. **Choose Sensor Cover type**

-D	Diffusion Tip with 1/2inch male NPT fitting	\$ 125.00
-S	Sintered Metal Filter Tip with 1/2inch male NPT fitting	\$ 112.00

 3. **Select probe cable length: 1 meter or 2 meters (cable ordered separately)**

-1M	2 meter signal cable, replaces the 1 meter cable	\$ 60.00
-2M	5 meter signal cable, replaces the 1 meter cable	\$ 75.00
-5M	10 meter signal cable, replaces the 1 meter cable	\$ 175.00
-20M	20 meter signal cable, replaces the 1 meter cable	\$ 250.00

 4. **Power- Standard is 24VDC- No Designation needed**

-VAC	Optional is Universal VAC Power Adapter	\$ 125.00
-SWT	ON-OFF Power Switch w/ rubber boot added to side of DCM	\$ 112.00

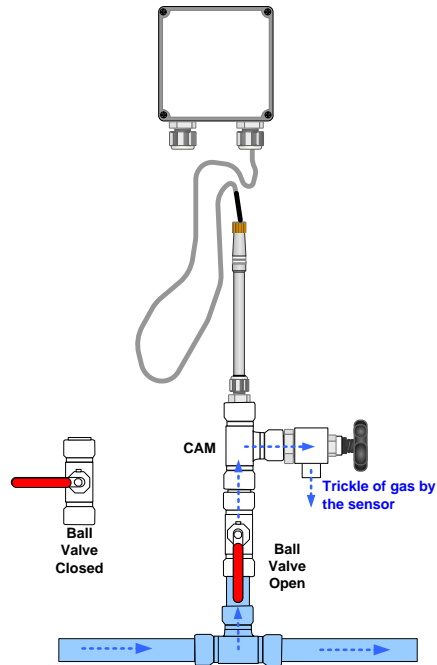
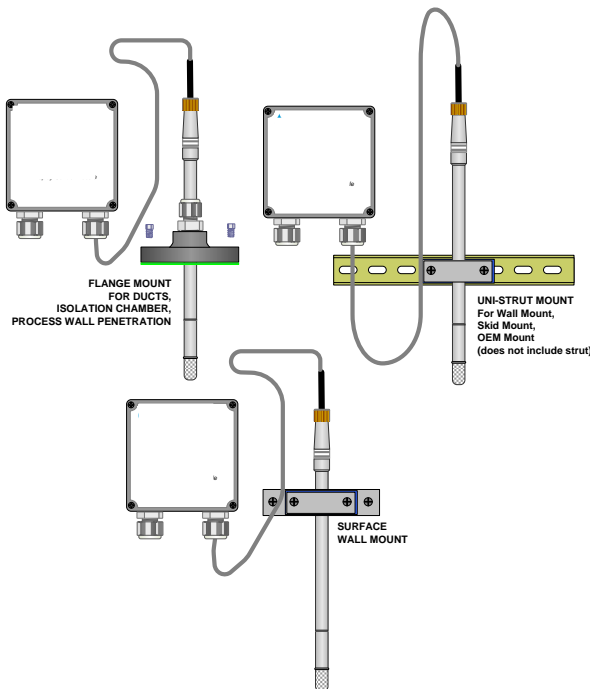
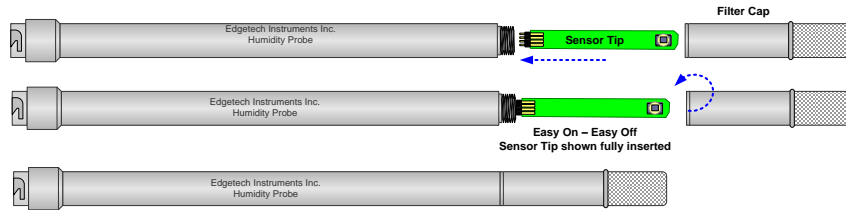
 5. **Options (List as separate line items)**

-3/4S	Optional is Universal VAC Power Adapter	\$ 45.00
-3/4NPT	ON-OFF Power Switch w/ rubber boot added to side of DCM	\$ 25.00

SPARE PARTS/ ACCESSORIES (optional, ordered separately)

CAM	Compressed Air Module Includes Isolation valve and metered sample flow Provides isolation valve interface to process take-off point or can be used as a sample chamber, brass.	\$ 395.00
FSS	SS Pipe Flange Mount w/ Gasket, rated for 300 PSIG, the probe gets installed into a 3.75-inch diameter 304 SS Threaded Pipe Flange, 4 bolt install, includes rubber gasket. For use with Pipe Flanges, Isolation chamber, and glove box mounting.	\$ 187.00
FPVC	Dark Gray PVC Pipe Flange Mount w/ Gasket, rated for 150 PSIG, the probe gets installed into a 3.5-inch diameter PVC Threaded Pipe Flange, 4 bolt install, includes rubber gasket. For use with Pipe Flanges, Isolation chamber, and glove box mounting.	\$ 65.00
SM	Surface Wall Mount, Probe is retained between two polypropylene blocks.	\$ 99.00
US	Uni-Strut Mount, Same as the surface mount except the blocks are mounted.	\$ 99.00
HPP125-TIP	Spare smart sensor tip, includes NIST Traceable Certificate PPMv/T/DP/P	\$ 480.00
HPB125-TIP	Spare smart sensor tip, includes NIST Traceable Certificate PPMv/T/DP/BP	\$ 480.00

HPFIL	Spare SS Filter Cap for the HPP125 probe, 100 micron	\$ 112.00
HPDIF	DIFFUSION Cap for the HPP125 probe, no filter- open pore	\$ 112.00


Diffusion Tip Probe

Sintered Filter Tip Probe