



# ACCUPOINT LP2™

## Low-pressure Moisture Transmitter

Industrial Gas

Manufacturing

Natural Gas

Medical & Aviation

Aerospace & Military

Glove Box

Specialty Gases

### Classic Simplicity

Utilizing our time-proven electrolytic method and MEECO's two-wire transmitter design, the **Accupoint LP2** features microprocessor-driven electronics. With the push of a button, choose any one of five different display options and a host of output scales. Follow the menu and adjust both your display and output range as measurement requirements change.

A built-in, dual-stage pressure regulator and an operating pressure range of 5-100 psig make the **Accupoint LP2** ideally suited for water vapor determination in most low pressure industrial, natural gas, and process gas streams. It functions as a standard 24 VDC, two-wire loop powered transmitter. An optional RS-232 output signal is available when the unit operates in three-wire mode. Housed in a NEMA 4X enclosure, the **Accupoint LP2** mounts directly at the measurement point, whether indoors or out.

### Accupoint LP2 Key Features Include:

- ☐ **Units of Measure:** Microprocessor-based electronics allow a choice of display options including ppmV, ppmW, lbs/mmscf, or °C and °F dewpoint.
- ☐ **Three-Button User Interface:** Mode/Enter key, along with simple Up and Down keys, make using the menu quick and simple.
- ☐ **LCD Display:** Integral digital display allows direct indication at point-of-use, and quick field configuration of the control parameters.
- ☐ **Selectable Output:** Flexibility to change output scales in the field. No need to replace electronic components. Simply access the menu via the Mode/Enter key and select the output scale.
- ☐ **2-Wire or 3-Wire Modes:** Standard simplicity of a 2-wire, loop-powered transmitter (with FM/CSA approval for Class 1 Division 1 with intrinsic safety barrier) or the added feature of RS 232 output (in a 3-wire mode *without* FM/CSA approval).
- ☐ **On-Line Verification:** Use the simple Delta-Flow procedure to quickly verify sensor linearity and performance *in situ*.



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### Specifications:

|                                             |                                                                                                                                                                                                                             |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detection Limit (LDL):                      | 0.5 ppmV (100 sccm) standard model<br>10 ppmV (10 sccm) model for natural gas                                                                                                                                               |
| Operating Range:                            | 0-1,000 ppmV with 0.1 ppmV resolution (100 sccm flow units)<br>0-5,000 ppmV with 1 ppmV resolution (10 sccm flow units)                                                                                                     |
| Accuracy:                                   | 5% of reading or 0.4 ppmV, whichever is greater<br>In pure Oxygen: $\pm 10\%$ of reading or 3 ppmV, whichever is greater                                                                                                    |
| Cell type (P <sub>2</sub> O <sub>5</sub> ): | APR, AP, APO*, or APRH*                                                                                                                                                                                                     |
| Gas Matrices Library:                       | Inert gases, Oxygen, Hydrogen, Natural Gas, and others, including gas mixtures. For other gases, please consult factory.<br><br>*For Oxygen (mixtures) APO cell is required, for Hydrogen (mixtures) APRH cell is required. |
| Inlet Pressure:                             | 5-100 psig (0.34-6.9 barg)                                                                                                                                                                                                  |
| Ambient Conditions:                         | -20°C to +60°C (-4°F to +140°F)                                                                                                                                                                                             |
| Flow Rate:                                  | Sample: 10 or 100 sccm model<br>Bypass 1000 sccm (1 slpm)                                                                                                                                                                   |
| Display unit options:                       | ppmV, ppmW (requires user input of molecular weight)<br>°C or °F dewpoint and lbs/mm scf. (Note: °C or °F are referenced to atmospheric pressure)<br>Pressure dewpoint available with user input of operating pressure      |
| Gas Connections:                            | 1/8" compression                                                                                                                                                                                                            |
| Signal Output:                              | 4-20 mA loop signal (2-wire mode) user field programmable<br>4-20 mA non-isolated current sink (3-wire mode) (NOT FM/CSA Approved)<br>Isolated RS-232 in 3-wire mode only (optional – NOT FM/CSA Approved)                  |
| Electrical:                                 | 24 VDC 2-wire loop powered (customer supplied)<br>24 VDC 3-wire common ground (customer supplied)<br>Maximum cable length: 750' (229 m) #24 AWG 2-conductor cable with shield                                               |
| User Interface:                             | 3-key touch pad. 1 line, 16-character alphanumeric LCD, 3/8" high digits                                                                                                                                                    |
| Weight:                                     | 11 ½ lbs. (5.2 kg)                                                                                                                                                                                                          |
| Dimensions (H x W x D):                     | 10 ½" H x 9 ¼" W x 6 ½" D (26.7 cm x 23.5 cm x 16.5 cm)                                                                                                                                                                     |
| Approvals:                                  | CE Marked, FM/CSA Class 1, Division 1, Intrinsically safe with IS barrier in 2-wire mode ONLY                                                                                                                               |

**Service with a Big Smile** 😊: The **Accupoint LP2** comes with a full two-year Certificate of Calibration. The cell can easily be replaced in the field, with no need to disconnect the unit from the sample stream! Also, spare cells now have a two-year storage life if kept in their sealed shipment bags.