

ACCUPOINT 2™

MICRO-PROCESSOR BASED MOISTURE TRANSMITTER

Micro-Processor Based Simplicity

Utilizing the time-proven electrolytic process and MEECO's two-wire transmitter design, the Accupoint 2 features micro-processor driven electronics. With the push of a button, choose any one of five 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 50-3000 psig make the Accupoint 2 ideally suited for water vapor determination in most industrial, natural 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 2 mounts directly at the measurement point – whether indoors or out.

Principle of Operation

Based on Faraday's Law of Electrolysis, the Accupoint 2's sensor absorbs and electrolyzes moisture to fractional parts-per-million (ppm).

How: One hundred percent of the sample moisture is absorbed by a hygroscopic film that covers two spiral wound electrodes embedded in a hollow glass tube. When the sample gas enters the cell at a known flow rate, the film absorbs all the moisture molecules present. By applying an electrical potential (voltage) to the electrodes, each absorbed water molecule is electrolyzed, generating a finite current. This current is precise and proportional to the amount of absorbed water.

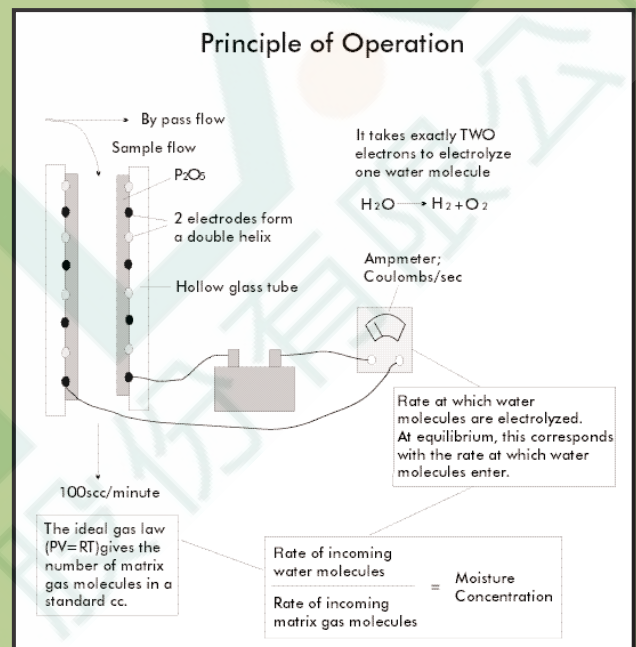
Accupoint 2™ Key Features Include:

Units of Measure: Micro-processor based electronics allow choice of display options including ppmV, ppmW, lbs/mmascf 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.



Moisture In = Current Out

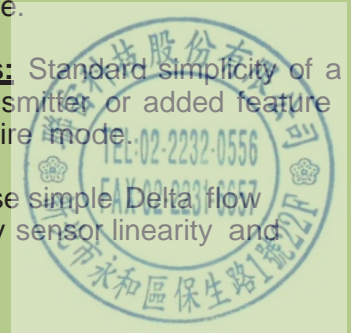


LCD Display: Integral digital display allows direct indication at point of use, and quick field configuration of the control parameters.

Scaleable Output: Flexibility to change output scales in field. No need to replace electronic components. Simply access menu via Mode/Enter key and select output scale.

2-Wire or 3-Wire Modes: Standard simplicity of a 2-wire, loop powered transmitter or added feature of RS-232 output in a 3-wire mode.

On-Line Verification: Use simple Delta flow procedure to quickly verify sensor linearity and performance on-line.



Specifications	
Accupoint 2™ Features:	Stable value indication 2-wire or 3-wire operation (jumper setable)
User Interface:	3-key touch pad
Display:	1 line, 16 character alphanumeric LCD 3/8" high digits
Display Options:	ppmV, ppmW (requires user input of molecular weight), °C or °F dewpoint, and lbs/mm scf (Note: °C and °F dewpoint are referenced to atmospheric pressure. Pressure dewpoint available with user input of operating pressure).
Power:	24 Vdc ±20% 2-wire loop powered (customer supplied) 24 Vdc ±10% 3-wire common ground (customer supplied)
Output Signal:	4–20 mA loop signal (2-wire mode) user field programmable 4–20 mA non-isolated current sink (3-wire mode) (Not FM Approved) Isolated RS232 in 3-wire mode only (optional-Not FM Approved)
Inlet Pressure Range:	50–3000 psig
Operating Temperature:	-20°C to +60°C (-4°F to 140°F)
Accuracy:	Standard Cells: ±5% of reading or 0.4 ppm, whichever is greater
Ranges:	0–1000 ppmV with 0.1 ppm resolution (100cc flow units) 0–5000 ppmV with 1 ppm resolution (10cc flow units)
Maximum Cable Length:	750' of 24 AWG 2 conductor cable with shield (2-wire)
Fittings and Connections:	1/8" Compression
Weight:	9 lbs. (4.1 kg)
Lower Detection Limits:	Standard Cells: 1 ppmV
Flow Rate:	Sample: 10 sccm or 100 sccm Bypass: 1000 sccm
Approvals:	CSA Approved, FM Approved, Class 1, Division 1, Intrinsically safe with barrier in 2-wire mode only; CE Marked. Pending Testing: ATEX
Gas Compatibility:	Consult Factory

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