

# Model PPM2

## Portable Trace Moisture Analyzers

The Edgetech Instruments PPM2 portable, battery powered, trace moisture analyzers are intended specifically for monitoring moisture levels in dew/frost point and PPMv units. This trace moisture analyzer utilizes an electrochemical phosphorus pentoxide sensor in combination with a proprietary semi-permeable diffusion membrane.

The principle of operation applies Faraday's Law of Electrolysis which measures dissociation current, making it a fundamental measurement of the moisture content. The PPM2 is ideally used in relatively clean, dry, inert gas applications.

### Applications Include

- Electric Power (Transformer Gas)
- Common Process Gases (Semiconductor Industry)
- Pharmaceutical Industry (Medical Gas)
- Gas Supplier Industry (Quality Control)

### Features Include

- Sensitivity below 1 PPMv
- Fast response
- Long sensor life
- Rechargeable batteries, recharger included
- Fundamental measurement of moisture content
- Displays/outputs in dew/frost point (°C/°F) and PPMv

### Specifications:

#### Technology Used:

- Phosphorus pentoxide electrolytic cell

#### Model Designations:

PPM2 – FV: For positive pressure applications, battery powered with flow valve

PPM2 – VP: For vacuum or atmospheric applications, battery powered with vacuum pump

#### Measured Parameters:

PPMv, dew/frost point

#### Accuracy:

± 5% of PPM reading, nominal

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#### Range:

PPMv: 1250 - 0.1

Dew/frost Point: -20°C to -95°C

#### Pressure:

0 to 200 psig

#### Response Time:

90% of step change in one minute, typical

#### Hysteresis:

None

#### Operating/Sampling Temperature:

0°C to 50°C

#### Outputs:

4 to 20mA (2), scalable by end-user

RS-232C (bi-directional), programmable and readable

Alarm relays (2), settable by end-user

Digital display, LCD, 2 line backlit

#### Power Requirements:

Battery powered with battery charger (115/230 Vac or 24 Vdc) included

#### Standard Sensor Cable:

6 feet (1.8 m)

#### Dimensions:

Carrying Case: (LWD) 19" (48.3 cm) x 14" (35.6 cm) x 7" (17.8 cm)

#### Weight:

15 lb. (6.8 kg)

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Rev v3

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