

# Model EDM-P

## Portable Trace Moisture Analyser

The **Model EDM-P Portable Trace Moisture Analyser** uses the long established electrolytic technique to determine the moisture content of gases. Water in the gas sample is absorbed by anhydrous phosphorous pentoxide and the current required to dissociate the water to hydrogen and oxygen is directly proportional to the moisture concentration, according to Faraday's Law.

**Portable - Colour Touch Screen - Rugged -  
Accurate - Easy Set Up - 1 or 2 Channels.**



Model EDM-P can be used in all gases (except ammonia, NH<sub>3</sub>, or amines), its greatest strength being its resistance to corrosive gases, such as chlorine and hydrogen chloride.

### FEATURES

- The EDM-P can process 2 independent channels simultaneously.
- Sharp resolution, full colour, touch screen and easy to use screen with built in keyboard feature.
- The display can be set in ppm(v) or °C dewpoint.
- 7 selectable languages available.
- Advanced menu navigation.
- Mains or battery/cell operation
- USB interface for data transfer.
- Self monitoring of instrument function.
- The analogue output can be scaled freely.
- On-board data logging.
- EP Approved.

### APPLICATIONS

- Producers and users of technical and medical gases
- Microelectronics
- Chemical industries (especially for corrosive gases such as CL and HCL)
- Heat treatment / hardening processes
- Research and laboratories

For more information on the Model EDM-P Call +44 (0) 1274 733 100  
or Email: [info@amsystems.co.uk](mailto:info@amsystems.co.uk)

The Model EDM-P has been specifically designed for use with aggressive gases, especially Chlorine and HCl-gas. Chemically resistant material (PVDF) is used for all wetted parts, stainless steel is also available.

### TECHNICAL DATA FOR MODEL EDM

#### Each channel

- Lower detection limit	:	0.05 ppm(v)
- Measuring range	:	0 - 2000 ppm(v)
- Resolution	:	0.1 ppm(v)
- Auto sensor detection		
- Sensor check		
- Analogue output (free scalable)	:	4-20 mA
Data Logging	:	From 2sec to 10min Intervals,
Battery life	:	Approx 5 hours on full charge
Dimensions	:	15 x 25 x35 cm.
Weight	:	6kg (8kg)

#### Measuring cell

- Body material PVDF or stainless steel
- Sensor material Pt wire on glass or thick layer structure on ceramic carrier
- Measuring gas flow 20 NI/h or 100 NI/h
- Measuring gas temperature +5 ... +65 °C
- Measuring gas pressure max. 200 mbarg at the input to the cell
- Measuring accuracy +/- 5% of value, min. 0.4 ppm(v)
- Response time to a moister event < 1 sec.
- Return time, T90 < 2 min.
- Reproducibility at 20.0 ppm(v) +/- 2%
- Gas connection 1/4 inch NPT. Screw fitting
- Measuring cell connection - 5 pole Binder plug
- Sensor cable 0.5m

#### Option:

Measuring cell mounted in an acrylic enclosure with flow meter, 3 and 4 way valves for sample and purge gases.

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Product specification may be subject to change.

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