# DF-745 NanoTrace Moisture Analyzer

## The Delta F NanoTrace Moisture Analyzer

- The DF-745 moisture analyzer is designed for applications which do not require the demanding detection limits of the model DF-750 moisture analyzer. A complimentary instrument to the DF-750 which has a Lower detection Limit (LDL) of 200ppt, the 745 offers an economic alternative with an LDL of 2ppb
- Utilizing the same Tuneable Diode Laser Absorption Spectroscopy (TDLAS) as the successful DF-750 inert gas moisture analyzer, the DF 745 offers a simple to use instrument for the measurement of trace levels of moisture in inert gases (N<sub>2</sub>, Ar, H<sub>2</sub>, He, O<sub>2</sub>)
- Applications include mobile carts for checking pipe-work integrity, troubleshooting, monitoring bulk gas supplies to LCD plants and fabs, gas plant control and QA.



For more information about Delta F sensor technology, ask for the Delta F Moisture Technology Brochure.

# **Moisture System Performance**

### Range

0 to 20 PPM Analog output scaleable down to 0-20 PPB

Lowest Detection Level 2 PPB

**Resolution – Analytical** (Sensitivity, Smallest Detectable Change) 0.5 PPB

Resolution – Display 0.01 PPB

# Accuracy

Greater of ±3% of Reading or ±1 PPB

Response Time (Typical) 10 minutes to reach 90% of an upward step challenge

#### Upset Recovery Time

< 5 minutes from high PPB upset to within 10 PPB of previously stable reading

### Sample Requirements

Sample Line Temperature: Heat Trace to 140°F (60°C) Limits: 50° to 176°F (10° to 80°C) For best results, maintain sample line at 60° C Sample Flow: 0.5 to 4lpm at 15 to 25 psig (2.03 to 2.72 BarA).

### Miscellaneous

*Dimensions:* 19" (48.3cm) W x 10.5" (26.7 cm) H x 22.5" (57.2 cm) D Weight: 64 lbs. (29 kg.) *Ambient Operating Temperature:* 50° F to 105° F (10° C to 40° C)

#### **Configuration and Installation**

Delta F provides comprehensive assistance for a broad variety of application problems including measurements of semiconductor specialty gases. Depending on the model, Delta F analyzers can be configured to provide a wide choice of outputs for data collection and process control systems. Contact your Delta F representative for an Applications Data Sheet and pricing information.



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