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TECHNOLOGY GROUP

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Artisan Technology Group
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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_2, Ar, H_2, He, O_2)
- 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 140ºF (60ºC)
Limits: 50º to 176ºF (10º to 80ºC)
For best results, maintain sample line at 60º 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: 50º F to 105º F (10º C to 40º 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.

THE DIFFERENCE DELTA F

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We buy equipment

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