

NanoTrace Moisture in HCl Analyzer Configuration Guide

DF-730

Standard Features & Specifications

Performance

Lowest Detection Level	1 ppb
Resolution	
Analytical (<i>Sensitivity-smallest detectable change</i>)	.25 ppb
Display	0.1 ppb
Accuracy (greater of)	±5% of reading or ± 0.5 ppb (Constant Conditions)
Speed of Response (typically)	20 minutes
<i>Time to reach 90% of an upward step challenge</i>	
Upset Recovery Time	<15minutes
<i>Time from high ppb upset to within 10 ppb of the previously stable reading</i>	
Range	0-10 ppm
Ambient Operating Temperature	50° to 105° F (10° to 40° C)
Background Gas Compatibility	HCl

Gas Sample Conditions

Sample Pressure	
<i>Operating limits:</i>	7 to 12 psig (1.93 to 3.31 bar)
Sample Return Pressure	Atmospheric Vent (optimal)
Limits:-2 to 2 psig (0.88 bar to 1.14 bar)	
Flow Rate:	0.125 lpm
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	

Gas Flow System

Construction Materials	300 Series stainless steel
Gas Connections	¼ inch VCR compatible inlet fitting ¼ inch compression outlet fitting to vacuum pump ¼ inch compression inlet/outlet fittings on vacuum pump

Construction

Enclosure:	NEMA 1 in 19" Rack Mount
Dimensions:	19" (48.3cm) W x 10.5" (26.7 cm) H x 22.5" (57.2 cm) D
Weight:	68 lbs. (31 kg.)

Maintenance & Logging

Data Logging & Graphing	<i>Analyzer can store years of continuous data, downloadable in monthly blocks</i>
Automatic Maintenance Log	<i>Self checking, maintains records satisfying many ISO 9000 requirements</i>

Electrical

Back Lighted Display	7.4" VGA Monochrome (640x480)
Visual Alarm Status Indicators	4 moisture levels, temperature, moisture sensor diagnostic, loss of flow, zero verification-in-process, analyzer off-line, expanded range
Relays	(<i>Failsafe action upon loss of power to alarm condition</i>) 4 non-latching, independently assignable to alarms or indicators. SPDT contacts rated for 1A at 30 VDC.
Power Requirements	100-120 VAC @ 5A, 50/60 Hz (standard); 200-240 VAC @ 2.5A, 50/60 Hz (optional). Configurable at factory.
Output Signals	<i>Analog Outputs:</i> Menu scaleable single output range of 0-100 ppb up to 0-10 ppm Isolated 4-20 mADC, and choice of 0-1, 0-2, 0-5, or 0-10 VDC, configurable at factory Expanded Range Scales <i>Two user selectable secondary analog output ranges for re-scaling the output once the primary range is exceeded</i>
Digital Output:	2-Way RS232 or RS485, configurable at factory

ORDERING INFORMATION

Base Model

730-0010	NanoTrace Moisture Analyzer
-V	(added to model number) 230 VAC/50/60 Hz Input Power

Outputs

730-RS232	Two-Way Serial Communications
730-RS485	Two-Way Serial Communications
	(pick one VDC Output)
730-OS-1	0-1 VDC
730-OS-2	0-2 VDC
730-OS-5	0-5 VDC
730-OS-10	0-10 VDC

Cabinet

730-KYLK	Key Lock
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Specifications subject to change without notice.