

LASERTRACE™

H₂O SPECIFICATIONS

H₂O

A. GAS SAMPLE CONDITIONS

<i>Number of Inlets:</i>	Up to four independent, simultaneous gas inlets.
<i>Sample Inlet Pressure:</i>	10 - 125 psig (1.7 - 9.6 bar)
<i>Flow Rate:</i>	0.5 - 1.8 slm per inlet (depending on gas type)
<i>Sample Gases:</i>	Most inert, toxic, passive, and corrosive.
<i>Sample Line Temperature:</i>	up to 60° C

B. GAS FLOW SYSTEM

<i>Materials of Construction:</i>	316L stainless steel (optional: Hastelloy®)
<i>Wetted Components:</i>	10 Ra surface finish
<i>Gas Connections:</i>	Sample inlets & outlets - 1/4" VCR
<i>Leak-tested to:</i>	<2x10 ⁻⁸ mbar • l/sec

C. ELECTRICAL

<i>Alarm Indicators:</i>	User programmable alarm setpoints (1 per inlet)
<i>Power Requirements:</i>	90-240 VAC 50/60 Hz
<i>Power Consumption:</i>	200 Watts max.
<i>Output Signals:</i>	0-5 VDC, isolated 0-20 or 4-20 mA output per inlet Form-C relay per sample inlet
<ul style="list-style-type: none">• Recorder• Alarm	
<i>User Interface:</i>	10.4" color VGA display with touch screen, PS2 Mouse and Keyboard connection, 10BaseT Ethernet, 3.5" USB, RS-232

D. DIMENSIONS

<i>Mounting:</i>	H x W x D [inches (mm)]
<ul style="list-style-type: none">• Control unit:• Sensor module unit:	14 x 19x 14 (356x 483 x 356) 7 x 19x 27 (178 x 483 x 686)
<ul style="list-style-type: none">• Single sensor modular unit:	7 x 4.75x 27 (178 x 121 x 686)

Weight:

<ul style="list-style-type: none">• Control unit:• Sensor module unit:	32 lbs. (14.5 kg)
#Channels	Weight [lbs. (kg)]
1	38 (17.2)
2	57 (25.8)
3	76 (34.4)
4	95 (43)

PERFORMANCE

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<i>Lowest Detection Limit:</i>	200 ppt
<i>Sensitivity:</i>	100 ppt
<i>Accuracy (greater of):</i>	4% of reading or ± 0.1 ppb
<i>Speed of Response (typical):</i>	
<ul style="list-style-type: none">• 95% of value	< 1 min.
<i>Operating Range:</i>	0 - 5000 ppb
<i>Environmental Conditions:</i>	10° - 40° C
<i>Storage Temperature:</i>	-10°C to 50°C

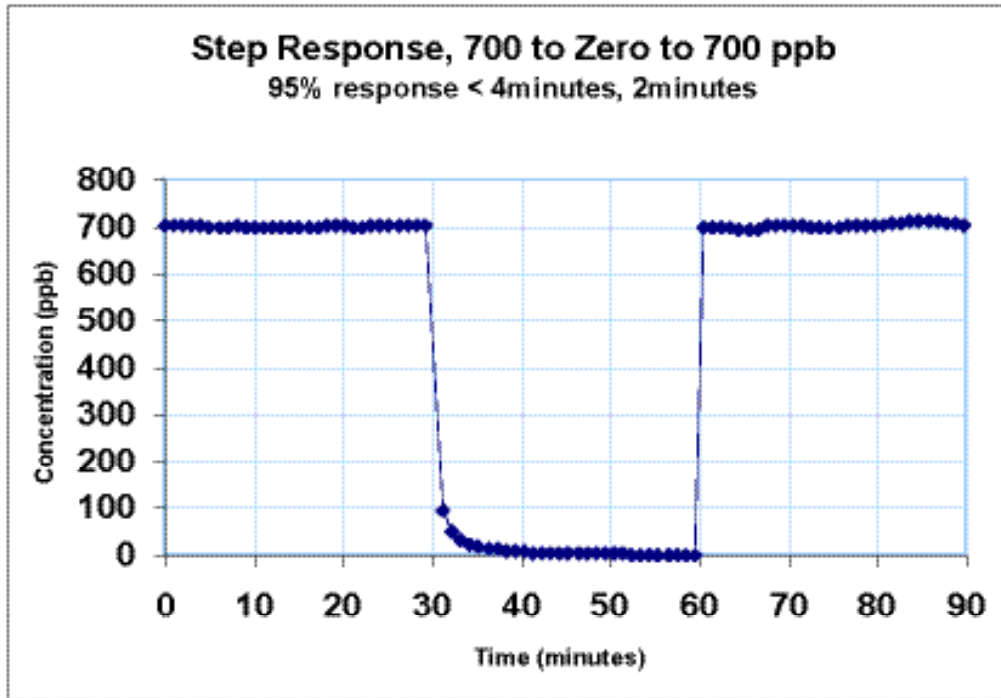
TECHNOLOGY

<i>Method:</i>	Cavity Ring-Down Spectroscopy
<i>Patents:</i>	U.S. Patent # 5,528,040 Other Patents Pending

Tigeroptics



H₂O Response Curve



WHEN MEASUREMENT IS A MATTER OF SURVIVAL

Founded in 2001, Tiger Optics brings you cutting-edge technology designed for field use. With sales and service support available world-wide, Tiger is ready to spring into action. Call us or contact your local representative for more information on the LaserTrace™ today.

Tiger^{optics}

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