



335L SERIES PORTABLE PROCESS PPM HYDROGEN ANALYZER

APPLICATIONS

For analysis of ppm hydrogen (H₂) in clean and dry process gases.

FEATURES

- Rugged design that is easy to operate
- Fast warm up and response
- Electrochemical H2 sensor
- Digital meter readout with backlight
- Modular layout that is easy to maintain
- Rechargeable 'gel cell' battery operated
- Built-in sample pump or flow regulator
- Weatherproof (WP) cabinet with clear Lexan cover

OPTIONS

- Models 'L' or 'HL' offer different ppm range choices
- Recorder outputs of 0-1 V or 4-20 mA
- Sample pre-cooler for hot samples
- Condensate removal for wet applications
- Suitcase (K) style cabinet available
- Air make-up system for samples containing no oxygen
- H₂ alarm with LED
- Detachable/portable data logger

CALIBRATION

- Ambient air or N2 for zero
- Gas cylinder of known H_2 for span



Weatherproof (WP) Enclosure



Suitcase (K) Enclosure

NOVA ANALYTICAL SYSTEMS www.nova-gas.com

DESCRIPTION

The Nova 335L and 335HL Portable Analyzers have been designed for the detection of ppm hydrogen (H₂) in clean dry sample gases. The electrochemical cell requires that a small amount of oxygen be present in the gas sample. In operation, a built-in sample pump draws in the gas sample through the sample tube, filter, and flow meter and then on to the sensor. The detected H₂ is displayed on an LCD digital meter which has a switchable backlight for use in dark areas.

A rechargeable 'gel cell' battery provides enough power for approximately 8 hours of continuous operation and the analyzer can be used while it is being recharged. A red LED tells when to recharge and a green LED verifies that it is receiving recharging power. The recharger is included.

The Model 335L features low PPM range H₂ analysis. The Model 335LH features high PPM range analysis.

SPECIFICATIONS

Nova reserves the right to specification changes which may occur with advances in design without prior notice.

Description	
Method of Detection:	Electrochemical sensor
Ranges:	Model 335L - choice of 0-200 PPM / 0-500 PPM / 0-2,000 PPM H2 Model 335HL - choice of 0-2,000 / 9,999 / 20,000 / 30,000 / 40,000 / 50,000 PPM H2
Resolution:	<u>1ppm</u> for ranges to 2,000 PPM / <u>10ppm</u> for ranges 9,999 to 20,000ppm <u>100ppm</u> for ranges 20,000 to 40,000 ppm
Accuracy and Repeatability:	± 2% of full scale
Drift:	± 1% of full scale max. per day (after calibration)
Response Time (T-90):	30-40 seconds to 90% step change - not including sample transport time
Ambient Temperature Range:	55° to 120°F (12° to 50°C)
Linearity:	± 2% of F.S.
Size and Weight:	WP style - approx. 10" L x 7½" W x 6½" H @ 8 lbs (25.5 x 19 x 16.5 cm @ 3.6 kg) K style approx. 9½" L x 7" W x 6½" H @ 8 lbs (24 x 17 x 18 cm @ 3.6 kg)
Power:	115VAC 60Hz for recharging (220VAC 50Hz available)
Output Options:	4-20 mA or 0-1 VDC

UNIQUE APPLICATIONS

The Nova electrochemical H2 sensor may respond or be contaminated in the presence of other gases. Consult Nova on these types of applications. All Nova analyzers are built using proven technologies and techniques. If this product does not suit your application, please contact Nova at 1-800-295-3771. In many cases, we are able to build an analyzer specific to your needs.



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