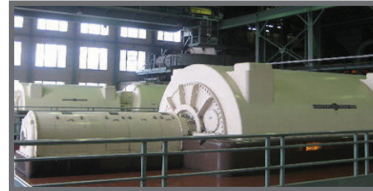


NOVA

Dependable Gas Analysis Solutions

380 SERIES

PORTABLE TRI-GAS ANALYZER FOR HYDROGEN/CARBON DIOXIDE/AIR PURGING



APPLICATIONS

For checking purity of hydrogen (H_2) in H_2 -cooled generators and synchronous converters. The Model 380 Series will also monitor the safe purging of H_2 during shutdown or startup.

FEATURES

- Rugged design that is easy to operate
- Fast warm up and response
- Monitors 0-100% H_2 in air, 0-100% H_2 in CO_2 , 0-100% Air in CO_2
- Rugged long-life thermal conductivity cell
- Digital readout meter with backlight
- Rechargeable battery operation
- Modular layout that is easy to maintain
- Built-in flow meter, flow control valve, and pump
- Built-in pressure regulator prevents over pressuring of pump and sensor
- Suitcase cabinet has carry handle and is weatherproof when closed
- Sample pressure ranges 0.5 PSI to 125 PSI

CALIBRATION

- Range 1: Air for Zero, 100% H_2 for Span
- Range 2: 100% CO_2 for Zero, 100% H_2 for Span
- Range 3: 100% CO_2 for Zero, Air for Span



**NOVA MODEL 380K
HYDROGEN ANALYZER**

NOVA ANALYTICAL SYSTEMS

www.nova-gas.com

DESCRIPTION

The Nova 380 Series Tri-Gas Analyzer is designed for monitoring the H₂ purity inside a power generator and to monitor the purging procedure during a generator shutdown or startup.

The analyzer contains a temperature compensated thermal conductivity (T/C) cell, amplifier board, digital read-out, range switch, pressure regulator, gas flow control valve, pump and a flow indicator. A recorder output is optional.

The T/C cell does not burn the sample nor is it consumed in any way, so it has a life expectancy of over 10 years. Measurement results are fast and accurate. A rechargeable 'gel cell' battery provides enough power for about 8 hours of continuous operation and the analyzer can be used while it is being recharged.

SPECIFICATIONS

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

Description	
Method of Detection:	Temperature compensated thermal conductivity (T/C) cell
Ranges Available:	Range 1: 0-100% H ₂ in Air; Range 2: 0-100% H ₂ in CO ₂ ; Range 3: 0-100% Air in CO ₂
Resolution:	0.1% of gas measured
Accuracy and Repeatability:	Range 1: ± 1% of Full Scale; Range 2: ± 2% of F.S.; Range 3: ± 2% of F.S.
Drift:	H ₂ in CO ₂ or Air in CO ₂ , ± 2% F.S. per week maximum drift, 0-100% H ₂ in Air range is ± 0.4% per week maximum
Response Time (T-90):	10-15 seconds to 90% step change - not including sample transport time
Ambient Temperature Range:	32-120°F (0-50°C)
Linearity:	± 1.0% of F.S. on H ₂ in Air range. ± 2% of F.S. in H ₂ or Air in CO ₂ ranges
Size and Weight :	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

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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