



Dependable Gas Analysis Solutions



450 SERIES CONTINUOUS PROCESS ANALYZER FOR PPM LEVEL HYDROGEN SULFIDE

APPLICATIONS

For continuous analysis of up to 0-2,500 PPM hydrogen sulfide (H_2S) in process gas streams using an electrochemical sensor.

FEATURES

- Best value continuous low-range H_2S analyzer
- Electrochemical-type H_2S sensor
- Bright digital readout
- Microprocessor control with push button calibration
- Easy-to-maintain modular layout
- Built-in sample pump or pressure regulator
- Sensor is temperature controlled for maximum stability
- Non-isolated 4 - 20 mA output

OPTIONS

- Hi/Low gas, low flow, and diagnostic alarms available
- Isolated analog, RS232, RS485 and Ethernet outputs available
- Cabinet purge system available for use in hazardous areas
- Full automatic calibration with touch screen LCD display
- Cold weather package for operation to $-5^{\circ}F$ ($-20^{\circ}C$)
- Cabinet coolers can be fitted to most models
- High temperature filters and probes

CALIBRATION

- Nitrogen for zero
- Analyzed H_2S calibration gas for span



Wall Mount (N4) Enclosure

NOVA ANALYTICAL SYSTEMS

www.nova-gas.com

DESCRIPTION

The Nova 450 Series is intended for continuous low range H₂S analysis. This analyzer utilizes a long-life electrochemical 'fuel cell' sensor for the detection of H₂S in clean and dry process gases. The sensor produces a small millivoltage output which is directly proportional to the H₂S detected. The output is then amplified and displayed on a digital readout meter and recorder output. The 450 can be supplied with a sampling pump or pressure regulator to suit most applications.

MODELS

- 450N4 - Wall mounted NEMA4 (IP65) enclosure rating
- 450N4X - Wall mounted corrosion-resistant NEMA4X (IP65) enclosure rating

SPECIFICATIONS

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

Description	
Method of Detection:	Customer replaceable electrochemical 'fuel cell' H ₂ S sensor. Expected life 1 to 2 years depending on measurement concentrations.
Ranges Available:	Choice of 0-50 / 100 / 1,000 / 2,000 / 2,500 PPM H ₂ S
Resolution:	1 PPM for 0-100 PPM H ₂ S; 10 PPM for ranges over 0-100 PPM H ₂ S
Accuracy and Repeatability:	Within 2% of signal
Drift:	Less than 2% signal loss per month
Response Time (T-90):	Less than 60 seconds
Ambient Temperature Range:	32-122°F (0-50°C); 15-90% relative humidity non-condensing. Lower temperatures (-5°F, -20°C) with Cold Weather Package.
Linearity:	Better than 1% of full scale
Size and Weight:	Dimensions will vary depending on enclosure style and options required
Power:	115VAC 60Hz (220VAC 50Hz available)
Output Options:	4-20ma into 500 ohms non-isolated standard Isolated 4-20mA, RS232, RS485 optional
Alarms:	High and/or low alarm contacts available, relay contacts SPDT 5A @ 220VAC rating. Low flow alarm optional

UNIQUE APPLICATIONS

The electrochemical cell in this analyzer requires that a small amount of O₂ be present in the sample, or that it be metered into the sample. Consult Nova for each application. 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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