



490 SERIES CONTINUOUS PROCESS ANALYZER FOR PPM LEVEL HYDROGEN CHLORIDE

APPLICATIONS

For continuous analysis of up to 0-20 PPM hydrogen chloride (HCl) in process gas streams using an electrochemical sensor.

FEATURES

- Best value continuous low-range HCl analyzer
- Electrochemical-type HCl 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 4-20mA 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°F (-20°C)
- · Cabinet coolers can be fitted to most models
- High temperature filters and probes

CALIBRATION

- Nitrogen for zero
- Analyzed HCl calibration gas for span



Wall Mount (N4) Enclosure

DESCRIPTION

The Nova Model 490 is intended for continuous low range HCl analysis. This analyzer utilizes an electrochemical sensor for the detection of HCl in clean and dry process gases. The sensor produces a small millivoltage output which is directly proportional to the HCl detected. The output is then amplified and displayed on a digital readout meter and recorder output. The Model 490 can be supplied with a sampling pump or pressure regulator to suit most applications.

MODELS

- 490N4 Wall mounted NEMA4 (IP65) enclosure rating
- 490N4X 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.

Method of Detection: Customer replaceable electrochemical HCl sensor. Expected life 1 to 2 years depending on measurement concentrations. Ranges Available: Choice of 0-20 PPM HCl Resolution: 1 PPM 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.	Description	
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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	Resolution:	1 PPM
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Isolated 4-20mA, RS232, RS485 optional	Power:	115VAC 60Hz (220VAC 50Hz available)
Alarms: High and/or low alarm contacts available, relay contacts SPDT 5A @ 220VAC rating.	Output Options:	
Low flow alarm 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 O_2 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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