430 SERIES
PROCESS HYDROGEN ANALYZER

APPLICATIONS

For continuous analysis of up to 100% hydrogen (H₂) in process gas streams. Also recommended for other applications such as H₂ cooled generators, electrolysis units, refinery gas, heat treating atmospheres, blast furnace gas, and many more.

FEATURES

- Best value continuous H₂ analyzer
- Bright digital readout, 4 - 20 mA output
- Long life thermal conductivity (TC) detector with high accuracy and repeatability, cannot be burned out from loss of flow
- Fast response (T90 - 10 to 15 seconds)
- Easy-to-maintain modular layout
- Built-in sample pump or pressure regulator
- Sensor temperature controlled for maximum stability

OPTIONS

- Hi/Low gas, low flow, and diagnostic alarms available
- Isolated 4-20mA, RS232, RS485, MODBUS®, 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 or air for zero
- Span using a known H₂ in nitrogen calibration gas.

NOVA ANALYTICAL SYSTEMS
www.nova-gas.com
DESCRIPTION
The Nova 430 Series Process Hydrogen analyzer utilizes a temperature-controlled, thermal conductivity (TC) cell for the detection of \( \text{H}_2 \) in process gas. This cell produces a small millivoltage output which is directly proportional to the \( \text{H}_2 \) detected. This output is then amplified and displayed on a digital readout meter and can also be available as an output for recorders, loggers, etc. The analyzer can be supplied with a pump or pressure regulator depending on customer requirement.

MODELS
There are five types of mounting configurations available. All tubing connections are 1/4" SS FPT.

- 430N4 - Wall mounted NEMA4 (IP65) enclosure rating
- 430N4X - Wall mounted corrosion-resistant NEMA4X (IP65) enclosure rating
- 430RM - 19" (483mm) rack mounted, on sliding rails
- 430N7MC: Wall mounted NEMA7 UL/CSA explosion-proof with non-intrusive magnetic calibration, meets Class 1 Div 1 Group BCD rating
- 430RMN7: Wall mounted NEMA7 sensor housing with rack mounted control cabinet (two separate enclosures)

SPECIFICATIONS

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

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.