

460 FLEXI-NOVA SERIES

CONTINUOUS PROCESS SULFUR DIOXIDE ANALYZER



APPLICATIONS

Light-duty analyzers for applications or environments that are less intensive. For continuous analysis of sulfur dioxide (SO₂) in process gas streams using an infrared detector. Both percent and PPM analysis available.

FEATURES

- Percent (460) or PPM (460L) SO₂ by infrared detector
- Low range PPM (461) SO₂ by electrochemical sensor
- NDIR detector is sensitive, reliable, and non-depleting
- Electrochemical sensor is easy to replace when needed
- Touch-screen display for gas readings
- Easy-to-maintain modular layout
- Sensor is temperature controlled for maximum stability
- Built-in sample pump, flowmeter, and filters
- 4-20mA non-isolated recorder output

OPTIONS

- Hi/Low gas and low flow alarms available
- Serial output & data-logger package available
- Light-duty pre-filter & condensate removal
- Up to 6 other gases measured (depending on application)
- Cabinet cooling available

CALIBRATION

- On bottled SO₂ in N₂ gas for Span
- On bottled N₂ or Air for Zero



Standard NEMA4
wall-mount cabinet



Optional rack-mount cabinet

DESCRIPTION

The Nova FLEXI-NOVA Series Platform has been designed for continuous gas measurements in applications and environments that are less intensive. Lab work, research, clean processes, pre-treated / pre-cleaned produced gases, and others, may benefit from the FLEXI-NOVA series.

Depending on application, some light-duty sample conditioning features may be available. For clean process measurements, percent and ppm-level SO₂ gas.

All sensors / detectors are temperature-controlled or temperature-compensated for maximum analytical stability. Easy calibration using touch-screen controls. Serial Output Package allows connection & data-logging to personal computers via a choice of USB / RS-232 / RS-485.

SPECIFICATIONS

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

Description

Method of Detection:	Microprocessor-based single cell NDIR; low range PPM SO ₂ by electrochemical sensor
Ranges Available:	460L - 0-2000, 0-3000, 0-5000 PPM SO ₂ 460 - 0-1, 0-5, 0-10, 0-20, 0-30 % SO ₂ 461 - 0-200, 0-1000 PPM SO ₂
Resolution:	0.1% SO ₂ on % versions, 10 PPM SO ₂ on PPM versions
Accuracy and Repeatability:	±2% of full scale
Drift:	Less than 2% of full scale per month.
Response Time (T-90):	Less than 15 seconds to T-90
Ambient Temperature Range:	40 to 104°F (4 to 40°C). Optional: up to 130°F (55°C) with cabinet cooler
Linearity:	±2% of full scale
Size and Weight: <small>(Availability of some enclosure types may be dependant on application)</small>	NEMA 4: 51H x 41W x 26D cm (20"H x 16"W x 10"D) RACK MOUNT: 22H x 48W x 47D cm (8.7"H x 19"W x 16"D)
Power:	115VAC 60Hz (220VAC 50Hz available)
Output Options:	4-20mA into 500 ohms isolated; choice of RS232 / RS485 / USB serial connection
Alarms:	High and/or low alarm contacts available, relay contacts SPDT 5A @ 220VAC rating. Low flow alarm optional

UNIQUE APPLICATIONS

Nova 460 / 461 analyzers are suitable for clean dry process gases only. Some gases may interfere with SO₂ measurement; complete information on sample gas composition is required. 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.



NOVA ANALYTICAL SYSTEMS
(A UNIT OF TENOVA GOODFELLOW INC.)

IN USA:
4450 Witmer Industrial Estates, Unit 4 • Niagara Falls, NY • 14301
Tel: 1-800-295-3771 • 716.285.0418 • Fax: 716.282.2937
IN CANADA:
270 Sherman Avenue North • Hamilton, ON • L8L 6N5
Tel: 905.545.2003 • Fax: 905.545.4248
emails:
sales@nova-gas.com / websales@nova-gas.com



www.nova-gas.com