

NOVA

Dependable Gas Analysis Solutions



3II SERIES PORTABLE ANALYZER FOR SULFUR DIOXIDE IN AMBIENT AIR

APPLICATIONS

Analysis of sulfur dioxide (SO₂) by electrochemical cell in ambient air.

FEATURES

- Rugged design that is easy to operate and maintain
- Fast warm-up and response
- Disposable, long life electrochemical SO₂ sensor
- Digital readout meter with backlight
- Modular layout that is easy to maintain
- Rechargeable battery operation
- Any range from 0-2000 PPM SO₂
- Built-in sample pump, filter and flow meter
- Rapid reading recovery after SO₂ 'overdose'
- Stainless steel probe with sample hose
- Weatherproof (WP) cabinet with clear Lexan cover

OPTIONS

- Recorder outputs of 0-1V or 4-20mA
- Suitcase (K) style cabinet available
- AC power only operation
- High SO₂ alarm with LED
- Detachable/portable datalogger

CALIBRATION

- Air for zero
- Analyzed calibration gas mixture of PPM SO₂ in air for span



Weatherproof (WP) Enclosure



Suitcase (K) Enclosure

NOVA ANALYTICAL SYSTEMS

www.nova-gas.com

DESCRIPTION

The Nova 311 Series Portable SO₂ Analyzer utilizes a reliable, customer-replaceable electrochemical sensor which responds quickly to the SO₂ present in the ambient air sample. Its life expectancy is between 3 and 4 years. In operation, a built-in sample pump draws in the gas sample in through the sampling tube, filter, and flow meter. It then flows on into the sensor where the SO₂ is detected and digitally displayed on an LCD meter. The meter may also be backlit for use in dark areas.

A rechargeable battery provides enough power to the pump and electronics for about 20 hours of continuous operation. The analyzer can still be operated while it is being charged. A red LED light on the front panel indicates when to recharge. A green LED light indicates that it is receiving charging power. A recharger is included.

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 SO ₂ sensor
Ranges Available:	Any range from 0-2000 PPM SO ₂
Resolution:	1 PPM
Accuracy and Repeatability:	± 1% of full scale, based on a 0-2000 PPM range
Drift:	Less than 0.5% full scale per day
Response Time (T-90):	20-30 seconds for 90% of step change
Ambient Temperature Range:	0-40°C (32° to 105°F)
Linearity:	± 1% of full scale
Size and Weight:	WP style - approx. 11½" L x 8" W x 7¼" H @ 8 lbs (29 x 20 x 18 cm @ 3.6 kg) K style - approx. 14" L x 10½" W x 6" H @ 12 lbs (36 x 27 x 15 cm @ 5.5 kg)
Power:	AC/DC operation, 115VAC/60Hz for recharging (other voltages available)
Output Options:	4-20 mA or 0-1 VDC
Alarms:	High SO ₂ alarm with LED (optional)

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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