

# NOVA

Dependable Gas Analysis Solutions



## 337 SERIES PORTABLE PROCESS ANALYZER FOR SULFUR HEXAFLUORIDE

### APPLICATIONS

For checking sulfur hexafluoride (SF<sub>6</sub>) in blanketing applications for power cable, switch gear, and magnesium production. The range is 0-100.0% SF<sub>6</sub>.

### FEATURES

- Rugged design that is easy to operate
- Fast warm up and response
- Long life thermal conductivity cell that provides accurate and stable readings
- Digital meter readout with backlight
- Modular layout that is easy to maintain
- Sample can be returned to process (at atmospheric pressure)
- Rechargeable 'gel cell' battery operated
- Built-in regulator or sample pump
- Weatherproof (WP) cabinet with clear lexan cover

### OPTIONS

- Recorder outputs of 0-1V or 4-20mA
- Condensate removal for wet applications
- Suitcase (K) style cabinet available
- SF<sub>6</sub> alarms with LED
- Detachable/portable datalogger

### CALIBRATION

- Ambient air for zero
- Source of 100% SF<sub>6</sub> calibration gas for span.



Weatherproof (WP) Enclosure



Suitcase Style (K) Enclosure

NOVA ANALYTICAL SYSTEMS

[www.nova-gas.com](http://www.nova-gas.com)

## DESCRIPTION

The Nova 337 Portable Process Analyzer has been designed for the detection of sulphur hexafluoride (SF<sub>6</sub>) primarily in air or nitrogen (N<sub>2</sub>). However it can be used in some other applications with several background gases present. Consult Nova on these applications.

The thermal conductivity (T/C) cell provides a fast and accurate measurement of SF<sub>6</sub>. It has an expected life of over 10 years unless contaminated.

In operation, the sample gas will flow through a built-in regulator or be drawn in by a sample pump through the sample tube, filter, flow meter and then on to the T/C cell. The detected SF<sub>6</sub> is displayed on a large LCD digital meter which has a switchable back light for use in dark areas.

A rechargeable 'gel cell' battery provides enough power for approximately 8 hours of continuous operation and the analyzer can be used while it is being recharged. A red LED tells when to recharge and a green LED verifies that it is receiving recharging power. The recharger is included.

## SPECIFICATIONS

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

Description	
<b>Method of Detection:</b>	Temperature compensated thermal conductivity (T/C) cell
<b>Ranges:</b>	0-100.0% SF <sub>6</sub> in air or N <sub>2</sub>
<b>Resolution:</b>	0.1%
<b>Accuracy and Repeatability:</b>	± 2% of full scale
<b>Drift:</b>	± 1% of full scale max. per day (after calibration)
<b>Response Time (T-90):</b>	10-15 seconds to 90% step change - not including sample transport time
<b>Ambient Temperature Range:</b>	55° to 120°F (12° to 50°C)
<b>Linearity:</b>	± 2% of F.S. on SF <sub>6</sub> in Air
<b>Size and Weight:</b>	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. 9½" L x 7" W x 6½" H @ 8 lbs (24 x 17 x 18 cm @ 3.6 kg)
<b>Power:</b>	115VAC 60Hz (220VAC 50Hz available)
<b>Output Options:</b>	4-20 mA or 0-1 VDC
<b>Alarms:</b>	High or low SF <sub>6</sub> alarm (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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