NOVA

Dependable Gas Analysis Solutions

595 SERIES

AMMONIA ALARM MONITOR



APPLICATIONS

For monitoring of controlled atmosphere (C/A) fruit storage rooms, poultry farms, ammonia refrigeration equipment, or confined spaces.

FEATURES

- Sensitive, long-life electrochemical NH3 sensor
- Instant warm-up, no waiting
- Available with pumped or diffusion-style sampling
- Easy to use and calibrate
- Digital readout in PPM NH3
- Dust-tight NEMA 12 enclosure
- 4-20 mA or 0-1 VDC recorder output

OPTIONS

- Low flow alarm on pumped sample models
- Alarm with relay contact and 'Sonalert' audible alarm with 'Acknowledge' button
- NEMA 4X weather proof and corrosion-resistant enclosure
- Bright red strobe light
- Remote diffusion-style sensors (DR-models) can monitor up to four separate areas

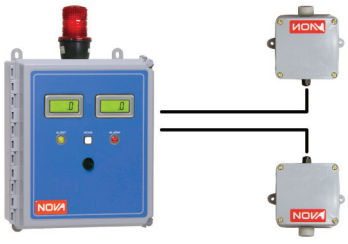
CALIBRATION

- On ammonia-free ambient air for zero
- Analyzed calibration gas 40-50 PPM NH_3 for span

595P - Pump Style in Nema 12 Enclosure

595D - Diffusion Style in Nema 12 Enclosure

595DR1 - Alarm Unit and Single Diffusion-Style Sensor in Separate Enclosures



595DR2 - Alarm Unit and Dual Diffusion-Style Sensors in Separate Enclosures

NOVA ANALYTICAL SYSTEMS

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DESCRIPTION

The Nova 595 Series Ammonia alarm monitors are designed for the continuous detection of ammonia in ambient air or in air drawn from a confined space or C/A room. These monitors are of particular benefit for leak detection in plants that use ammonia-type refrigeration systems.

Since the sensor does not require high levels of oxygen to be present in the sample for proper detection of ammonia, the Model 595 can be used to sample C/A storage rooms which may have low O_2 levels. The ammonia sensor is of the disposable electrochemical type with an expected monitor life of 3-4 years. It is easy to replace in the field.

MODELS

- 595D - Diffusion sensor, no sample pump
- 595P - Pumped sample version
- 595DR1 - with one remote NH_3 sensor
- 595DR2 - with two remote NH_3 sensors
- 595DR3 - with three remote NH_3 sensors
- 595DR4 - with four remote NH_3 sensors

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 NH_3 sensor, expected life 3-4 years
Ranges Available:	0-50 PPM NH_3 (200 PPM max)
Resolution:	1 PPM NH_3
Accuracy and Repeatability:	± 1% of full scale
Drift:	Less than 2% of full scale per week
Response Time (T-90):	55 seconds to 90% step change
Ambient Temperature Range:	40° to 104°F (5° to 40°C), may be operated at lower temperature with auxiliary heater
Linearity:	± 1% of full scale
Size and Weight:	12" H x 10" W x 7" D @ 8lbs. (30 x 25 x 17.5 cm @ 3.6kg) (DR2 to 4 may be larger)
Power:	12 or 24 VDC; 115VAC / 60 Hz; or 220VAC / 50 Hz operation
Output Options:	0-1VDC or 4-20mA
Alarms:	Optional High and/or Low alarm with SPDT contacts with 10A 115VAC rating, audible alarm with reset button, and indicator light for each alarm level; optional Low Flow alarm and strobe light also available

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.

NOVA ANALYTICAL SYSTEMS
A UNIT OF TENOVA GOODFELLOW INC.

IN USA:
1925 Pine Avenue • 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
email: sales@nova-gas.com
websales@nova-gas.com

www.nova-gas.com