

NOVA

Dependable Gas Analysis Solutions

54I SERIES CHLORINE ALARM MONITOR



APPLICATIONS

Designed for the continuous monitoring of chlorine (Cl_2) in ambient air at water treatment plants, chlorine production plants, commercial swimming pools, or any area in which chlorine is handled or stored.

FEATURES

- Stand-alone or remote sensor versions available
- Long-life electrochemical cell
- Fast response to the presence of chlorine in the air
- Instant warm-up, no wait
- Bright digital readout - no reading interpretation errors
- Easy use and calibrate
- Easy to maintain modular layout
- 4-20mA output signal for recording
- NEMA 12 dust-tight enclosure

OPTIONS

- Alarm with LED indicator, relay contact, and 'Sonalert' audible alarm with 'Acknowledge' button
- Up to four remote sensors
- Strobe light for alarm indication
- NEMA 4 or 4X weather-proof enclosures

CALIBRATION

- On chlorine-free air or nitrogen for Zero
- On analyzed calibration gas of Cl_2 in air for Span



541D - Diffusion Style in NEMA 12 Enclosure
(models shown with optional strobe light)



541P - Pump Style in NEMA 12 Enclosure



541DR1 - Alarm Unit with single remote diffusion sensor

NOVA ANALYTICAL SYSTEMS

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DESCRIPTION

The Nova 541 Series chlorine alarm monitors are designed for the continuous detection of Cl₂ in ambient air. The Cl₂ sensor is capable of excursions over 100 PPM with no damage. The Cl₂ sensor is a disposable electrochemical type with an expected life of between 3-4 years. The sensor needs no warm-up time and is ready to go as soon as the monitor is turned on. Several versions are available as shown below.

MODELS

- 541D - one diffusion-type sensor in main cabinet
- 541DR1 - one diffusion sensor remote from main cabinet
- 541DR2 - two remote diffusion sensors
- 541DR3 - three remote diffusion sensors
- 541DR4 - four remote diffusion sensors
- 541P - built-in sample pump to draw in sample from another location

SPECIFICATIONS

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

Description

Method of Detection:	Disposable electrochemical cell (3-4 years)
Ranges Available:	0-20 PPM standard (other ranges may be available)
Resolution:	1 PPM
Accuracy and Repeatability:	Better than 1% of full scale or 1 PPM, whichever is higher
Drift:	Less than 1% of full scale or 2 PPM per week, whichever is greater
Response Time (T-90):	Less than 15 seconds to 90% step change
Ambient Temperature Range:	32° to 120°F (0° to 40°C), may be operated at lower temperature with auxiliary heater
Linearity:	± 1% of full scale or 1 PPM, whichever is higher
Size and Weight:	14" H x 12" W x 8" D (35.6 x 30.5 x 20.3 cm) @ 18lbs. (8.2kg)
Power:	115VAC 60Hz (220VAC 50Hz available)
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.



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