

# NOVA 510 SERIES

## OXYGEN DEFICIENCY ALARM MONITORS

### APPLICATIONS

To monitor confined spaces, labs, control rooms, tunnels, oxygen plants, etc. for oxygen deficiency or excess.



510D



510DRI

### OPTIONS

- “Fail Safe” alarms available
- Low flow alarm (510P)
- NEMA 4X enclosure
- Strobe Light

### FEATURES

- High accuracy
- Digital readout in percent O<sub>2</sub>
- 5 year life electrochemical oxygen sensor
- Two levels of oxygen alarm with relay contacts and “Sonalert” audible alarm
- Easy to use and calibrate
- Fast response
- Corrosion resistant NEMA 12 enclosure
- Recorder output

### MODELS AVAILABLE

- **510D** Diffusion Sensor, No sample pump
- **510P** Pumped sample version
- **510DR1** Remote single O<sub>2</sub> sensor
- **510DR2** Remote Dual O<sub>2</sub> sensor

**NOVA ANALYTICAL SYSTEMS INC.**

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# DESCRIPTION

The Nova 510 Series Oxygen Deficiency or Excess Alarm Monitors are designed as an oxygen 'watchdog' against accidental displacement of ambient air in a confined space by inert gases or by a buildup of too much oxygen from an oxygen leak in the room.

The 510D (Diffusion Sensor), 510P (Pumped Sample) and 510DR1 or 510DR2 with single or dual remote sensor, all utilize a long life electrochemical oxygen sensor. Actual O<sub>2</sub> concentration is shown on an LED digital meter. Alarm set points are

pre set at Nova but are field adjustable if desired. A 'Sonalert' audible alarm with reset button is included.

Optionally available are a built in strobe light, a NEMA 4X enclosure and a low flow alarm for the Model 510P.

# SPECIFICATIONS

DESCRIPTION	
<b>Method of Detection</b>	Customer replaceable electrochemical 'fuel cell' oxygen sensor. Expected life: 3 years.
<b>Accuracy</b>	2% of full scale
<b>Speed of Response</b>	10-15 seconds to 90% step change
<b>Readout</b>	LED digital in percent O <sub>2</sub>
<b>Range</b>	0-30.0% (Other ranges available)
<b>Alarms</b>	High and low SPDT contacts with 10A 115VAC rating. Two alarm levels standard. Sonalert audible alarm with reset button. Indicator light for each alarm level. Strobe light and 'fail safe' alarms available.
<b>Temperature Conditions</b>	32° F to 122° F (0-50° C) May be operated at lower temperature with auxiliary heater.
<b>Drift</b>	Less than 1% full scale per month
<b>Flow Rate</b>	510P Models - 2 SCFH (1 L per min.) Low flow alarm optionally available.
<b>Size and Weight</b>	10" H x 8" W x 6" D @ 6 lbs.
<b>Power</b>	115/220VAC 50/60 Hz
<b>Output</b>	0-1VDC (4-20 optional)

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

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