

NUVAIR MULTIGAS SAT COLOR ALARM ANALYZER



SYNERGY
INNOVATIVE DIVING EQUIPMENT TRADING LLC

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Designed for commercial dive operators and hyperbaric facilities, the Multigas SAT Color connects to and displays data on up to six (6) sensors, such as oxygen (O₂), carbon dioxide (CO₂), hydrogen sulfide (H₂S), humidity, temperature, and pressure, among others.

The color display allows for continuous monitoring of gases and other factors in a variety of environments, including hyperbaric chambers and diving bells up to 35 bar (508 psi | 1150 fsw). Its nonvolatile memory retains settings for up to 10 years without power. The Multigas SAT Color comes in a single water-resistant carrying case and is custom-built to user specifications.

The unit can display the following values:

- Actual reading of sensors
- Partial Pressure (PP) of gas sensors
- Surface Equivalent Value (SEV) of the sensors related to surface pressure of 14.7 psi (1 bar)
- Sensor electrical values
- Graph of sensor values over time

FEATURES:

- Digital analyzer with color display
- Audible and visual alarms for O₂, CO₂, H₂S, Humidity, Pressure & Temperature
- Controlled by a rotary/push knob
- User replaceable batteries and sensors
- Low battery warning indicator
- Sensor status indicators
- Micro SD storage ready

SPECIFICATIONS:

Oxygen (O₂) SENSOR:

- Range: 0–100%
- Accuracy: ±2% over full scale

Carbon Dioxide (CO₂) SENSOR:

- 0–500 ppm range / 50 ppm resolution from 0 to 2500 ppm, then 100 ppm to full scale
- Actual CO₂ reading compensated for temperature (–4 to 122°F)

MOISTURE MONITOR:

- Range: 0–100% rh
- Resolution: 0.5% rh

HYDROGEN SULFIDE (H₂S) SENSOR:

- Range: 0–50 ppm
- Linearity: <5% full scale

TEMPERATURE SENSOR:

- –4 to 176°F (–20 to 80°C)
- Displayed as °F or °C

PRESSURE SENSOR:

- Displayed as bar, psi, atmospheres (ATM), feet/meter seawater (fsw/msw), or feet/meter freshwater (ffw/mfw)





ADVANTAGES:

- Programmable visual and audible alarm thresholds
- Fast response: 100 ms (min) per channel sampling
- Compact and lightweight water-resistant container 12×10.6×5.7 in, 4.4 lb (305×270×144 mm, 2 kg)
- Main display board 5.3×2.9 in (135×74 mm)
- Easy to operate, reliable and accurate
- Optional external panel mounting of sensors & instrumentation

PLEASE NOTE: Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. Inaccurate gas analysis can lead to serious personal injury or death. Most gas analyzers can be used to analyze a regulated gas sample flow, the contents of a gas cylinder or the flow from a regulator. To produce this flow, a flow restrictor and regulator may be required.





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