

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 (O<sub>2</sub>), carbon dioxide (CO<sub>2</sub>), hydrogen sulfide (H<sub>2</sub>S), 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 O<sub>2</sub>, CO<sub>2</sub>, H<sub>2</sub>S, 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

## 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 and instrumentation

## STANDARD SENSORS

### Oxygen (O<sub>2</sub>) Sensor

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

### Carbon Dioxide (CO<sub>2</sub>) Sensor

- Resolution: 0–5000 ppm range / 50 ppm resolution from 0 to 2500 ppm, then 100 ppm to full scale.
- Actual CO<sub>2</sub> reading compensated for temperature (-4 to 122°F)

### Moisture Monitor

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

### Temperature Sensor

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

### Hydrogen Sulfide (H<sub>2</sub>S) Sensor

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

### Pressure Sensor

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

### WARNING

Never expose gas sensors to pressure or you may cause damage and/or false readings. Damaged sensors will not provide accurate gas analysis. 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. The flow rate of gas must equal 1-5 L/min. To produce this flow, a Flow Restrictor and Regulator may be required. A faulty Flow Restrictor can lead to a false analyzer reading. Flow Restrictors should be regularly tested with a Flow Meter. Inaccurate gas analysis can lead to serious personal injury or death.