

# Nuvair Multigas Color Alarm Analyzer

**SKU:** 9641-NV

**Price:** ?6,306.66



## Description

The Nuvair Multigas Color is mounted in a water- and impact-resistant case with a powder-coated aluminum instrument panel. TFT 320 x 240 dpi color display with backlight LED generates 600 nits ( $\text{cd/m}^2$ ) light intensity and allows for viewing of dynamic gas concentration graphs.

## Analyzer/Sensor Abbreviations

Device Code	Device Description
ASSH	Absolute Humidity (Moisture)
CO	Carbon Monoxide
CO2	Carbon Dioxide
H2S	Hydrogen Sulfide
He	Helium
RH	Relative Humidity (Moisture)
T	Gas Temperature
VOC	Volatile Organic Compounds (Oil Vapor)
pp	Partial Pressure
P	Printer
LB	Lithium Battery Power
DP	12V DIN Rail Power
E	110/220V Wall Plug-in (International) Power

## Multigas Color Analyzer Combinations

### Product Code Analyzer/Equipment Combination

1	He, O <sub>2</sub> , CO, T
2	He, O <sub>2</sub> , CO <sub>2</sub> , T
3	O <sub>2</sub> , CO, CO <sub>2</sub> , DP, ASSH
4	He, O <sub>2</sub> , CO, CO <sub>2</sub> , T
5	O <sub>2</sub> , CO, CO <sub>2</sub> , T
6	He, O <sub>2</sub> , CO, CO <sub>2</sub>
7	He, O <sub>2</sub> , T
8	O <sub>2</sub> , CO <sub>2</sub> , T
9	O <sub>2</sub> , CO <sub>2</sub>
10	O <sub>2</sub> pp, CO <sub>2</sub> pp, P, T, RH
11	O <sub>2</sub> , CO <sub>2</sub> , P, RH, T
12	O <sub>2</sub> , CO, CO <sub>2</sub> , VOC, DP, ASSH
13	O <sub>2</sub> , CO, CO <sub>2</sub> , VOC, T, ASSH
15	O <sub>2</sub> , CO, CO <sub>2</sub> , HE, T, ASSH
16	CO, CO <sub>2</sub> , VOC, T
17	O <sub>2</sub> , CO <sub>2</sub> pp, H <sub>2</sub> Spp, P, T, RELH
18	CO, CO <sub>2</sub> , VOC, T
19	O <sub>2</sub> , CO, CO <sub>2</sub> , VOC, T, He

## Advantages

- Programmable alarm thresholds
- Audible and visual alarms
- Fast response
- Packaged in a compact water- and impact-resistant container (12" x 10.6" x 5.7" / 305 x 270 x 144 mm)
- Reliable and accurate
- Optional relays for external alarm or compressor control
- Upgrade firmware using an SD card
- Designed for use in hyperbaric chambers; tested to 35 bar/ata. (In pressurized environments, the calibration of O<sub>2</sub> and CO<sub>2</sub> sensors must be performed at the same pressure with sample or ambient gas of known concentration.)

## Features

- Digital analyzer with color display plots dynamic gas concentration graphs
- Audible and visual alarms for oxygen (O<sub>2</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), moisture (H<sub>2</sub>O) & volatile organic compound, including oil vapor (VOC)
- Controlled by a rotary/push knob
- Sensor status indicators
- User replaceable Li-ion batteries and sensors
- On-board acoustic buzzer alarm
- Battery voltage indicator
- Includes a car lighter socket external power supply

- Plug the unit into a personal computer for continuous data reading
- Bluetooth LE equipped
- Cortex M4 microprocessor
- Micro SD card reader/writer produces a .CSV spreadsheet file
- Conversion rate: 10 ms
- Sampling time: 100 ms (min) for each channel

## **CO<sub>2</sub> Sensor**

- Non-dispersive infrared (NDIR) sensor
- Standard range: 0-2000 ppm
- Standard resolution: 20 ppm
- Optional range for hyperbaric chamber use: 0-5000 ppm
- Additional ranges available for any percentage or ppm

## **Volatile Organic Compounds (VOC) Analyzer**

- Available with readings in PPMv or mg/m<sup>3</sup> with the ability to set different compounds for a better resolution and accuracy

## **Moisture Monitor**

- Select one of three available moisture probe configurations, above
- Moisture reading of relative humidity from 0.0 to 99.9%
- Absolute humidity in mg/m<sup>3</sup> or PPMv
- New capacitive technology sensor
- Available dew point sensor up to -110°C

## **O<sub>2</sub> Sensor**

- 0-100% range
- Resolution: 0.1%
- Long life electromechanical sensor

## **CO Sensor**

- 0-50 ppm or 0-300 ppm range
- Resolution: 1 ppm
- Long life electrochemical sensor

## **Optional Helium (He) Sensor Configuration**

Available as a special order item, helium sensors can be optionally configured in the Multigas Color. Please call us for details and ordering. Typical configurations include:

- Helium, Oxygen, Temperature

- Helium, Oxygen, Carbon Monoxide
- Helium, Oxygen, Carbon Monoxide, Carbon Dioxide

## Software Menu

- Settings
- Start Log
- Brightness
- Languages
- Units
- Alarm Configuration
- Date and Time
- Select Skin
- Calibration
- Alarm
- Export Data

The Nuvair Multigas Color is custom-built to your requirements. For this reason, this unit may not be available for immediate shipping and is not available for purchase online. Please [contact](#) the sales team for ordering assistance and estimated lead times.

**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.

Excessive flow rates create unacceptable sensor pressure and cause false readings. All Nuvair gas sensors have been tested to pressures of 35 bar/ata, but analyzers do not read accurately unless calibrated at the same pressure of intended use. Use of sensors at pressures other than ambient requires special knowledge and training.