

COLOR BAR, VOC GAS DETECTOR Model C-21

With Audio Alarm and Data Logger Output

For dry cleaners, paint shops, printers, wood workers, hospitals, vehicle repair facilities, chemical production areas, and wherever indoor air quality monitoring is required. The Model C-21 gas sensor helps you comply with the new VOC air quality regulations for hydrocarbon gases and solvent vapors.



Benefits:

- Constantly monitors your work environment
- Detects leaks and poor air quality before they are a health hazard
- No Installation, simply plug it in.
- Easily understood by non - technical personnel
- Virtually no maintenance
- 24 hour per day, 7 day per week guarding for leaks.

Features:

- Highly sensitive to solvent vapors and other VOCs
- Detects down to OSHA, EPA and other regulatory-mandated levels, typically at low ppm concentrations
- Has built-in rechargeable battery for up to 2 hours of portable use to track down a leak
- Bright green - yellow - red display clearly shows hazard level of gas or vapor, see example*

**Typical color indications for Perchloroethylene*

All Green 20 ppm , All Amber 40 ppm, One red 50 ppm

Safety Features:

- **Enclosure:** Self extinguishing ABS plastic
- **Sensor:** Heated element is flame arrestor protected
- **Electrical:**
 - A) Circuits operate at 12 volts/250 ma or less with no high capacity inductors or capacitors
 - B) Automatically resetting fuse to protect against excess current flow and excess heating
 - C) Dual zener-type diode barrier to protect against surges, spikes, over-voltage, and reverse polarities

Specifications:

- **Range:** Full scale = 50 -100 ppm for most solvent based VOCs
- **Bar graph display:** Green = normal, Yellow = caution, Red = danger
- **Response time:** Within a few second of the VOC gas reaching the sensor
- **Measurement principle:** HMOS (heated metal oxide semiconductor) sensor
- **Size:** 85 x 35 x 60 mm (3.25 x 1.375 x 2.375 in)
- **Weight:** 140 gr (5 oz)
- **Power requirements:** 12 VDC at 300 mA. AC adapters available worldwide
- **Battery:** Self contained NiCad or NiMH. Approximately 2 hour capacity when recharged by AC overnight

Gases and Vapors the C-21 Will Detect

Acetaldehyde	Ether	Methyl chloride
Acetone	2-Ethoxyethanol	Methyl chloroform
Acetonitrile	Ethyl alcohol	Methylcyclohexane
Acetylene	Ethylamine	Methylcyclohexanot
Allyl alcohol	Ethyl benzene	Methylene chloride
Ammonia	Ethyl bromide	Methyl ethyl ketone
Arsine	Ethylbutyl ketone	MIBK (Hexone)
Benzene	Ethyl chloride	Methyl mercaptan
Butane	Ethyl ether	Naptha
2-Butanone (MEK)	Ethyl foemate	Napthalene
2-Butoxyethanol	Ethylenediazine	Natural gas
Butyl acetate	Ethylene dichloride	Nitro benzene
Butyl alcohol	Ethylene oxide	Nitrochloro benzene
Carbon monoxide	Formaldehyde	Nitroethane
Carbon tetrachloride	Frful alcohol	Nitrotoluene
Chlorobenzene	Gasoline/Diesel fuel	Pentane
Chloroform	Heptane	2-Pentanone
Chloroprene	Hexachloroethane	Perchloroethylene
Cumene	Hexane	Pet distillates
Cyclohexane	2-Hexanone	Phenylether
Cyclohexanal	Hydrogen	Phosphine
Cyclohexanone	Hydrogen bromide	Propane
Dichloroethyl ether	Hydrogen chloride	Propylene oxide
Diacetone alcohol	Hydrogen cyanide	R-11 R-12 R-22
Diborane	Hydrogen sulfide	R-S02
1,1 Dichloroethane	Isoamyl alcohol	Silane
1,2 Dichloroethane	Isobutyl alcohol	Sulfur dioxide
Diethylamine	Isopropyl alcohol	Toluene
Diethylamino ethanol	LP gas	1,1,1 TCE
Diobutyl ketone	Methane	1,1,2 TCE
Dimethylamine	Methyl alcohol	Trichloroethylene
Dimethylformamide	Methyl butyl ketone	Xylene
Dinitrobenzene	Methylamine	
Dinitrotoluene	Methyl cellosolve	

The above listing is only a partial one, with materials actually run in our laboratory. Detection threshold is typically at or below the OSHA established limits.

