

## 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       | Trichchloroethylene |
| 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.**

