

SENSORCON

Sensing Solutions by **molex**

PROTECTOR

Single Gas Serviceable Portable Gas Detector with High Safety Features and Low Cost of Operation



Protector Highlights and Benefits

The PRO-CO-1000 Protector handheld gas detector uses an electrochemical sensor to detect carbon monoxide gas in the atmosphere.

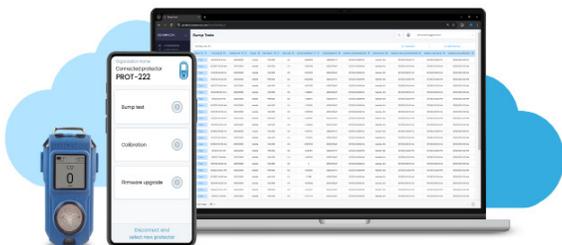


The Protector features a durable and comfortable design, as well as intrinsic safety and IP67 rating, which makes it suitable for on-site applications in oil refineries, gas pipelines, and other facilities. The Protector's new features improve safety by warning users of impending danger faster than the competition, and reduce cost of ownership through long battery life, reduced time for configuration and testing, and reduced

gas usage. The Protector can operate independently to show gas in parts per million (ppm) values and record shift, alarm, bump, and calibration data.

Protector Mobile Connect

Protector Mobile Connect is a phone app that allows quick and efficient data synchronization and offers basic functions to initiate bumps, calibrations, and firmware updates.



Protector Fleet Manager

Protector Fleet Manager is a cloud app that provides online storage and data processing for a certain site that can be accessed from the web or mobile devices. Allows to view compliance reports and individual data for all devices in the protector system.

Safer Worker Evacuation

With early warning gas alarms, extremely fast sensor response times coupled with the largest display in its category the Sensorcon protector keeps workers safer.

**Ultra Fast
EVACUATION**

Ultra fast evacuation with the "Early Warning" gas alarm (patent pending) using escalating gas readings with response times in a few seconds.

**50% Larger
DISPLAY**

See critical information with a display that is typically 50% larger than other products in its class

**89% Faster
RESPONSE TIME**

Evacuate workers more quickly with gas alarm response times typically 89% faster than similar products.

Lower Cost of Ownership

Designed from the ground up to minimize the high costs associated with portable gas detection management.

90%

SAVINGS ON TEST GAS

Save up to 90% on test gas over other systems and tens of thousands of dollars per year with the FastBump mode.

5

YEAR BATTERY

Maintenance time is reduced by hundreds of hours with a battery that lasts up to 5 years.

5

SECOND BUMP TEST

Quickly bump test in under 5 seconds making your workforce more productive by hundreds of hours each year.

SAVE

HUNDREDS OF HOURS

Quickly configure fleets of equipment via BLE saving hundreds of hours

Protector Features

- **Large Display** - Easy to read gas type, concentration (ppm), TWA and STEL readings, battery life, and time
- **Compact and Lightweight** - Rugged design is easy to use with one hand
- **Built-in Memory** - Stores 119 alarms, 359 bump tests, 19 calibrations, and 359 shifts
- **Automated Bump Test and Calibration** - Low power connectivity with the phone or dock via Bluetooth
- **Data and Event Log** - Worker exposure and compliance reporting via web portal

Technical Specifications

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| Product Model | PRO-CO-1000 |
| Manufacturer | Sensorcon |
| PRO-CO-1000 Measurement Range (ppm) | 0 to 1000 |
| Resolution (ppm) | 1.0 |
| Typical Response Time (sec) | (T90): <13 seconds |
| Operating Temperature Range | -22 to 122 °F (-30 to 50 °C) |
| Extended Intermittent Temperature Range | -40 to 140 °F (-40 to 60 °C) |
| Calibration Temperature | Ambient, 68 to 75 °F (20 to 24 °C) |
| Humidity Range (%RH) | 15 to 90, non-condensing |
| Pressure Range | 800 to 1200 mbar |
| Battery Life (yrs) (8hr shift, no alarms, 1 data upload)/day | 5 years |
| Shelf Life Before Use | 1 year |
| Warranty (yrs) | 2 years |
| Hazardous Locations Certifications (US & Canada) | Intrinsically safe, CLASS I, GROUP A,B,C,D; CLASS II, GROUP E,F,G; CLASS III, T4 ZONE 0, AEx ia IIC T4 Ga; Ex ia IIC T4 Ga -40°C ≤ Ta ≤60°C |
| Communication IDs | FCC ID: 2BCPVPROT IC: 30855-PROT |
| Ingress Protection | IP67 (1 meter for 30 min) |
| Weight | 4.5 oz./128 g (device with battery and clip) |
| Dimensions (L x W x H) | 3.50 x 2.00 x 1.75 inches/89 x 51 x 44.5 mm |
| Volume of audible alarm | 95 dBA @ 10 cm |
| Display | 128 x 128 Graphic LCD with backlight |
| Battery Type | Primary lithium, tadiran TL-5935 |
| Alarms (4 adjustable thresholds) | Flashing alarm LEDs, an audible alarm, and a vibrating alarm, programmable latches |
| Sensor Type | Electrochemical |

Please note: Due to ongoing research and product improvement, specifications are subject to change without notice.