



GasBADGE^{PRO}

Specifications Sheet

- Interchangeable “smart” sensors monitor oxygen or any one of many toxic gases
- One-year data logging capacity (minimum)
- Standard STEL and TWA

SPECIFICATIONS

INSTRUMENT WARRANTY

Guaranteed for Life™ – Instrument is warranted for as long as supported by Industrial Scientific Corporation (excluding sensors, batteries, and filters). CO, H₂S, and O₂ sensors are warranted for 2 years. All other sensors warranted for 1 year.

CASE

Rugged, water-resistant polycarbonate shell with protective concussion-proof overmold. RFI resistant.

DIMENSIONS

9.4 x 5.08 x 2.79 mm (3.7 x 2 x 1.1 in)

WEIGHT

85 g (3 oz)

SENSORS

CO, H₂S, O₂, NO₂, SO₂, NH₃, Cl₂, ClO₂, PH₃, HCN, H₂, CO/H₂ Low

MEASURING RANGES

CO:	0-1,500 ppm in 1 ppm increments
CO/H ₂ low:	0-1,500 ppm in 1 ppm increments
H ₂ S:	0-500 ppm in 0.1 ppm increments
O ₂ :	0-30% by vol in 0.1% increments
NO ₂ :	0-150 ppm in 0.1 ppm increments
SO ₂ :	0-150 ppm in 0.1 ppm increments
NH ₃ :	0-500 ppm in 1 ppm increments
Cl ₂ :	0-100 ppm in 0.1 ppm increments
ClO ₂ :	0-1 ppm in 0.01 ppm increments
PH ₃ :	0-10 ppm in 0.01 ppm increments
HCN:	0-30 ppm in 0.1 ppm increments
H ₂ :	0-2,000 ppm in 1 ppm increments

DISPLAY

Custom LCD with graphical icons for easy use; Segmented display for direct gas readings; Backlight for low light conditions; “Go/No Go” display mode; Peak reading indication

ALARMS

User selectable low and high alarms

Ultra-bright LEDs, loud audible alarm (95 dB) and vibrating alarm

Built to Industrial Scientific’s highest quality and reliability standards, GasBadge® Pro provides a lifetime of gas hazard protection with more features than any other single gas monitor available. Interchangeable “smart” sensors enable the GasBadge Pro to be quickly adapted to monitor unsafe levels of oxygen or any one of the following toxic gases: carbon monoxide, hydrogen sulfide, nitrogen dioxide, sulfur dioxide, chlorine, chlorine dioxide, phosphine, ammonia, hydrogen cyanide and hydrogen.

GasBadge Pro communicates directly via an infrared interface to optional accessories like the DSX Docking Station, Datalink and infrared printer to further simplify and automate calibration, function (bump) testing and data downloading. Standard STEL and TWA readings, and datalogging of up to one year of survey data are featured along with an event-logger that records the past 15 alarm events.

Housed in a rugged enclosure, the monitor is immune to RF, water resistant and extremely durable. A protective concussion-proof overmold protects the unit from extreme abuse in a variety of harsh industrial environments. It’s simple and intuitive four-button navigation allows easy access to setup, operation and calibration functions.

BATTERY RUN TIME

User replaceable 3V, CR2 Lithium battery, 2,600 hour run time, typical

DATA LOGGING

1 year continuous storage of data

EVENT LOGGER

Continually on. Logs last 15 alarm events, stamping how long ago the event occurred, the duration of the event, and the peak reading seen during the event. Event-logger can be viewed on PC or printed directly from the instrument to an infrared printer.

TEMPERATURE RANGE

-40 °C to 60 °C (-40 °F to 140 °F) typical

HUMIDITY RANGE

0% to 99% RH (non-condensing) typical

IP RATING

Third-party certified IP64

CERTIFICATIONS

ANZEx:	Ex ia I/IIC T4
ATEX:	I M1 / II 1 G Ex ia I Ma / Ex ia IIC T4 Ga
China Ex:	Ex ia IIC T4 Ga
CMA:	Ex ia I Ma
CSA:	Cl I, Div 1, Gr A-D T4; Ex ia IIC T4 Ga; Cl I, Zone 0, AEx ia IIC T4 Ga
KC:	Ex ia IIC T4
IECEx:	Ex ia I Ma; Ex ia IIC T4 Ga
INMETRO:	Ex ia I Ma; Ex ia IIC T4 Ga
UL:	Cl I, Div 1, Gr A-D, T4; Cl II, Gr E-G

Standard GasBadge Pro configurations are listed below.

To order the Australian-approved version, add an "A" as a suffix to the part number.

PART NO.	DESCRIPTION
18100060-1	GasBadge Pro – Carbon Monoxide (CO)
18100060-2	GasBadge Pro – Hydrogen Sulfide (H ₂ S)
18100060-3	GasBadge Pro – Oxygen (O ₂)
18100060-4	GasBadge Pro – Nitrogen Dioxide (NO ₂)
18100060-5	GasBadge Pro – Sulfur Dioxide (SO ₂)
18100060-6	GasBadge Pro – Ammonia (NH ₃)
18100060-7	GasBadge Pro – Chlorine (Cl ₂)
18100060-8	GasBadge Pro – Chlorine Dioxide (ClO ₂)
18100060-9	GasBadge Pro – Phosphine (PH ₃)
18100060-B	GasBadge Pro – Hydrogen Cyanide (HCN)
18100060-C	GasBadge Pro – Hydrogen (H ₂)
18100060-G	GasBadge Pro – Carbon Monoxide/Low Hydrogen Interference (CO/H ₂ Low)

OPTIONAL ACCESSORIES

18109331-ABC-ABC	DSX Docking Station for GasBadge Pro A – DSX Mode: 0 = DSX Standalone 1 = DSXi Cloud-connected 2 = DSX-L Local Server B – Number of Gas Inlet Ports: 3 = 3 Ports, 6 = 6 Ports C – Power Cord Type: 1 = North America, 2 = Europe, 3 = Australia, 4 = UK
18106260	GasBadge Datalink – software included
17121963	GasBadge neck lanyard with safety release
18106484	GasBadge Pro nylon carrying case
18106492	GasBadge Pro 2-unit nylon carrying case
17124504	Replacement water/dust sensor barriers (5 count)
17124033	Calibration Cup, GasBadge Pro
18106674	Co Breath Sampler for GasBadge Pro Monitor
17123019	Lithium battery, 3V, GasBadge Pro

All GasBadge® Pro Monitors Include: attached suspender clip, calibration adapter and tubing, and operating instructions.



DSX™
DOCKING STATION

The DSX™ Docking Station easily maintains the gas detectors that keep your people safe in hazardous environments.

- Know that your gas detectors are ready for use every day, every shift, without the burden of manual maintenance routines
- Stop worrying about calibration gas and let the DSX monitor and order replacement gas cylinders when you need them
- Effortlessly manage your fleet, data, and software updates from any web-enabled device



GASBADGE®
DATALINK

- Instantly download alarm events and instrument details
- Quickly and easily configure instrument preferences



Nylon
Carrying Case

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