

# GASBADGE<sup>PRO</sup>

## Dockable Single Gas Monitor

Monitor shown actual size



**B**uilt to Industrial Scientific's highest quality and reliability standards, GasBadge<sup>®</sup> 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 and ammonia.

GasBadge Pro communicates directly via an infrared interface to optional accessories like the Docking Station<sup>™</sup>, 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. Its simple and intuitive four-button navigation allows easy access to setup, operation and calibration functions. Lifetime warranty.

- Interchangeable "smart" sensors monitor oxygen or any one of many toxic gases
- One year datalogging capacity (minimum)
- Standard STEL and TWA
- Docking Station<sup>™</sup> compatible
- Lifetime warranty
- Minimum 2,600 hours continuous operation from replaceable CR2 Lithium battery
- Powerful audible alarm complemented by vibrating and visual alarms, standard
- Backlit display
- PPM or % by volume readout
- "Go/No Go" display mode
- User adjustable alarm and calibration gas setpoints
- Water resistant

[www.GasBadge.com](http://www.GasBadge.com)

## SPECIFICATIONS

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

**DIMENSIONS:** 3.7 x 2 x 1.1 inches  
(94 mm x 50.8 mm x 27.9 mm)

**WEIGHT:** 3 oz. (85 grams)

**SENSORS:** CO, H<sub>2</sub>S, O<sub>2</sub>, NO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, Cl<sub>2</sub>, ClO<sub>2</sub>, PH<sub>3</sub>

**MEASURING RANGES:** CO range: 0-1,500 ppm in 1 ppm increments  
H<sub>2</sub>S range: 0-500 ppm in 0.1 ppm increments  
O<sub>2</sub> range: 0-30% by volume in 0.1% increments  
NO<sub>2</sub> range: 0-150 ppm in 0.1 ppm increments  
SO<sub>2</sub> range: 0-150 ppm in 0.1 ppm increments  
NH<sub>3</sub> range: 0-100 ppm in 1 ppm increments  
Cl<sub>2</sub> range: 0-100 ppm in 0.1 ppm increments  
ClO<sub>2</sub> range: 0-1 ppm in 0.01 ppm increments  
PH<sub>3</sub> range: 0-10 ppm in 0.01 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

**BATTERY/RUNTIME:** User replaceable 3V, CR2 Lithium battery  
2,600 hour run time (minimum)

**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.

**DATALOGGER:** One year at one-minute intervals

**TEMPERATURE RANGE:** -40° to 60°C (-40° to 140°F), typical

**HUMIDITY RANGE:** 0-99% RH (non-condensing), typical

### APPROVALS:

UL and cUL: Class I, Div 1, Groups A,B,C,D; T4  
Class I, Zone 0, AEx ia IIC T4

CSA: Class I, Div 1, Groups A,B,C,D; T4  
Ex ia IIC T4 (pending)

ATEX: Intrinsic Safety: EEx ia IIC T4  
Equipment group and Category: II 2G  
EMC: EN50270 (pending)

Performance: O<sub>2</sub> (EN50104); CO, H<sub>2</sub>S, (EN45544) (pending)

Australia: Ex ia I/IIC T4 (pending)

IEC: Ex ia I/IIC T4 (pending)

Russia: GOST-R Approval (pending)

MSHA: Intrinsically safe for methane/air mixtures only (pending)

# GASBADGE<sup>PRO</sup>

## GASBADGE<sup>®</sup> PRO MONITORS AND OPTIONAL ACCESSORIES

PART NUMBER	DESCRIPTION
18100060-1	GasBadge <sup>®</sup> Pro – Carbon Monoxide (CO)
18100060-2	GasBadge <sup>®</sup> Pro – Hydrogen Sulfide (H <sub>2</sub> S)
18100060-3	GasBadge <sup>®</sup> Pro – Oxygen (O <sub>2</sub> )
18100060-4	GasBadge <sup>®</sup> Pro – Nitrogen Dioxide (NO <sub>2</sub> )
18100060-5	GasBadge <sup>®</sup> Pro – Sulfur Dioxide (SO <sub>2</sub> )
18100060-6	GasBadge <sup>®</sup> Pro – Ammonia (NH <sub>3</sub> )
18100060-7	GasBadge <sup>®</sup> Pro – Chlorine (Cl <sub>2</sub> )
18100060-8	GasBadge <sup>®</sup> Pro – Chlorine Dioxide (ClO <sub>2</sub> )
18100060-9	GasBadge <sup>®</sup> Pro – Phosphine (PH <sub>3</sub> )
18106500	GasBadge <sup>®</sup> Constant-Flow Hand Aspirated Pump
17121963	GasBadge <sup>®</sup> Neck Lanyard w/Safety Release
18106484	GasBadge <sup>®</sup> Pro Nylon Carrying Case
18106492	GasBadge <sup>®</sup> Pro 2-unit Nylon Carrying Case
17124504	Replacement water/dust sensor barriers (5 count)
18106260	GasBadge <sup>®</sup> Datalink
18106302-AB+	GasBadge <sup>®</sup> Pro DS2 Docking Station™
17117714	Serial data thermal printer with infrared interface (battery powered only)

+ **Ordering Information** – A = Wireless Compact Flash (0–none, 1–installed)  
 B = number of iGas Readers

**All GasBadge<sup>®</sup> Pro Monitors Include:** attached suspender clip, stainless steel belt clip, calibration adapter and tubing, and operating instructions.



- Stand-alone Instrument Docking Stations (IDS) available for use with all GasBadge<sup>®</sup> Pro gas monitors
- Link up to 100 IDS modules – dock thousands of instruments
- Graphical user interface to monitor facility-wide network
- Automatic instrument calibration, record keeping, diagnostics and recharging
- Utilizes one central database
- Multilingual display



**GASBADGE<sup>®</sup>**  
**DATALINK**

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

**INDUSTRIAL SCIENTIFIC**  
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