

GASBADGE^{PRO}

Dockable Single Gas Monitor

Monitor shown actual size



www.GasBadge.com

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 and hydrogen cyanide.

GasBadge Pro communicates directly via an infrared interface to optional accessories like the 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. 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[™] 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

SPECIFICATIONS

CASE: Rugged, water-resistant polycarbonate shell with protective concussion-proof overmold. RFI resistant.	BATTERY/RUNTIME: User replaceable 3V, CR2 Lithium battery 2,600 hour run time (minimum)
DIMENSIONS: 3.7 x 2 x 1.1 inches (94 mm x 50.8 mm x 27.9 mm)	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.
WEIGHT: 3 oz. (85 grams)	DATALOGGER: One year at one-minute intervals
SENSORS: CO, H ₂ S, O ₂ , NO ₂ , SO ₂ , NH ₃ , Cl ₂ , ClO ₂ , PH ₃ , HCN	TEMPERATURE RANGE: -40° to 60°C (-40° to 140°F), typical
MEASURING RANGES: CO: 0-1,500 ppm in 1 ppm increments H ₂ S: 0-500 ppm in 0.1 ppm increments O ₂ : 0-30% by volume 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 : 0-100 ppm in 1 ppm increments Cl ₂ : 0-100 ppm in 0.1 ppm increments ClO ₂ : 0-2 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	HUMIDITY RANGE: 0-99% RH (non-condensing), typical
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	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 I/IIC T4 Equipment group and Category: II 1G; I M2 EMC: EN50270 Performance: O ₂ (EN50104); CO, H ₂ S, (EN45544) (pending) Australia: Ex ia I/IIC T4 IEC: Ex ia IIC T4 Russia: GOST-R Approval (pending) MSHA: Intrinsically safe for methane/air mixtures only (pending)
ALARMS: User selectable low and high alarms Ultra-bright LEDs, loud audible alarm (95 dB) and vibrating alarm	

GASBADGE^{PRO}

GASBADGE[®] PRO MONITORS AND OPTIONAL ACCESSORIES

PART NUMBER	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-G	GasBadge [®] Pro – Carbon Monoxide/Low Hydrogen Interference (CO/H ₂ Null)
18106500	GasBadge [®] Constant-Flow Hand Aspirated Pump
17121963	GasBadge [®] Neck Lanyard w/Safety Release
18106484	GasBadge [®] Pro Nylon Carrying Case
18106492	GasBadge [®] Pro 2-unit Nylon Carrying Case
17124504	Replacement water/dust sensor barriers (5 count)
18106260	GasBadge [®] Datalink
18106302-AB+	GasBadge [®] 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[®] Pro Monitors Include: attached suspender clip, belt clip, calibration adapter and tubing, and operating instructions.



- Stand-alone Instrument Docking Stations (IDS) available for use with all GasBadge[®] 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[®] DATALINK

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

**INDUSTRIAL SCIENTIFIC
CORPORATION**

1001 Oakdale Road, Oakdale, PA 15071-1500

(412) 788-4353 Toll Free: 1-800-DETECTS Fax: (412) 788-8353 www.indsci.com e-mail: info@indsci.com

Industrial Scientific is an Equal Opportunity Employer.

REV1006

GUARANTEED.
FOR LIFE.

ISO9001:2000
CERTIFIED

GASBADGE^{PRO}

Dockable Single Gas Monitor



PRODUCT FEATURES



- Interchangeable “smart” sensors monitor oxygen or any one of many toxic gases
- One year datalogging capacity (minimum)
- Standard STEL and TWA
- Docking Station™ compatible
- Lifetime warranty
- Minimum 2,600 hours continuous operation from replaceable CR2 Lithium battery
- Compact size and light weight 3 oz. (85 grams)
- Powerful audible alarm complemented by vibrating and visual alarms, standard
- Backlit display
- Actual PPM or % by volume readout
- “Go/No Go” display mode
- User adjustable alarm and calibration gas setpoints
- Water resistant
- Event-logging (15 gas alarm events)

**INDUSTRIAL SCIENTIFIC
CORPORATION**

www.GasBadge.com

REV 081705

1001 Oakdale Road, Oakdale, PA 15071-1500
(412) 788-4353 Toll Free: 1-800-DETECTS Fax: (412) 788-8353 www.indsci.com e-mail: info@indsci.com

GASBADGE^{PRO}

Dockable Single Gas Monitor



SPECIFICATIONS



Detection Principle: Electrochemical

Sensors Available:

- Carbon Monoxide (CO): 0-1,500 ppm in 1 ppm increments
- Hydrogen Sulfide (H₂S): 0-500 ppm in 0.1 ppm increments
- Oxygen (O₂): 0-30% by volume in 0.1% increments
- Nitrogen Dioxide (NO₂): 0-150 ppm in 0.1 ppm increments
- Sulfur Dioxide (SO₂): 0-150 ppm in 0.1 ppm increments
- Ammonia (NH₃): 0-100 ppm in 1 ppm increments
- Chlorine (Cl₂): 0-100 ppm in 0.1 ppm increments
- Chlorine Dioxide (ClO₂): 0-1 ppm in 0.01 ppm increments
- Phosphine (PH₃): 0-10 ppm in 0.01 ppm increments

Accuracy: < ± 5% Toxics; < ± 0.5% Oxygen

Repeatability: < 2% of signal (Toxics)

Long Term Drift: < 2% signal loss/month, < 5% over life (Oxygen)

Response Time to Alarm:

- T50: < 12 sec.
- T90: < 30 sec.

Display:

- Custom LCD w/graphical icons
- Segmented display for direct gas readings
- LCD Backlight
- “Go/No Go” display mode
- Peak reading indication
- Password protected
- Over-range indication

Temperature and Humidity:

- Temperature: -40° to 60°C (-40° to 140°F), typical (Sensor-specific. Consult factory for specific operating ranges.)
- Humidity: 0-99% RH (non-condensing)

Battery/Runtime:

- User replaceable 3V, CR2 Lithium battery
- 2,600 hour run time (minimum)

Enclosure:

- Rugged polycarbonate shell with protective concussion-proof overmold
- RFI resistant
- Water 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)

Alarms:

- User programmable low and high alarms
- Audible – 95dB minimum (@ 10 cm)
- Vibrating Alarm
- Visual Alarms – Ultra bright red LEDs, front and top mounted

Calibration Interface:

- Simple three-step calibration
- Optional DS2 Docking Station™

User interface: Four push button

Output Interface: Infrared

Accessories (Optional):

- DS2 Docking Station™
- Portable infrared printer – prints event-log directly from instrument
- Datalink – View event-logger and monitor details. Configure user preferences.

Event-logger:

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

Datalogger: One year at one-minute intervals

Self Tests:

- Automatic (every 2 seconds) – tests functionality of electronics and presence of sensor
- User initiated – tests functionality of all alarms and LCD

Approvals: Consult factory for current approval status

- 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 I/IIC T4
Equipment group and Category: II 2G; I M2
EMC: EN50270
- Performance: O₂ (EN50104); CO, H₂S, (EN45544) (pending)
- Australia: Ex ia I/IIC T4 (pending)
- IEC: Ex ia I/IIC T4
- Russia: GOST-R Approval (pending)
- MSHA: Intrinsically safe for methane/air mixtures only (pending)

Warranty: Guaranteed for Life. (Consult factory for complete warranty details.)