BW TECHNOLOGIES GAS/ALERT/MAX MULTI-GAS DETECTORS

Four Gas Detector with Internal Sampling Pump

GasAlertMax provides extraordinary cost of ownership advantages. Training and maintenance costs are minimized through automated calibration, internal plug-in sampling pump, long-life VersaPak battery power (available in local stores) and simple, one-button control. GasAlertMax is powered by two advanced microcontrollers and features plug-in electrochemical and catalytic sensors. High-output audible/visual alarms provide instant notification.

The large alphanumeric LCD shows real-time gas concentrations and the instrument's status at all times. A full-function self-test verifies sensor, circuitry and battery integrity and activates the audible/visual alarms each time the detector is activated. GasAlertMax clearly advises the hazard present—Low, High, TWA and STEL multi-gas alarm. Recorded TWA, STEL and Peak exposures can be displayed on demand.

GasAlertMax satisfies the OSHA safety regulation CFR1910.146 (Permit Required - Confined Space Entry).



Features:

- Large LCD shows real-time gas concentrations of H2S, CO, O2 and %LEL
- Internal plug-in pump for remote sampling
- LOW, HIGH, TWA and STEL alarms with adjustable setpoints
- Equipped with plug-in, replaceable sensors
- Simple, automatic calibration procedure
- Intrinsically safe to U.S. European and Canadian standards
- Provides 95 dB tone and bright LED indication on alarm

- Compact (1.6 x 3.0 x 5.9 in) and lightweight (15.4 oz)
- Runs an entire shift on one Black & Decker VersaPak™ rechargeable battery (available worldwide)
- Peak values displayed on command
- Full-function self-test of: sensor/battery/circuitry integrity: and audible/visual alarms
- One VersaPak rechargeable battery, 2-port charger, 10 ft. sampling hose, calibration hose, carrying holster, and instructions in local languages included
- Vibrating alarm and remote audible/visual alarm (110 dB) accessories available

Ordering Information:

 Part No.
 GasAlert/Max for:
 Measuring Range

 GAMAX3-4
 4-gas, H2S, CO, O2
 H2S 0-100 ppm, CO 0-500 ppm, O2 (% by vol) 0-30%, Combustibles 0-100% LEL

 GAMAX3-3H
 3-gas, H2S, O2, LEL
 H2S 0-100 ppm, O2 (% by vol) 0-30%, Combustibles 0-100% LEL

 GAMAX3-2
 2-gas, O2, LEL
 O2 (% by vol) 0-30%, Combustibles 0-100% LEL

Add suffix for: -DL1 for black box datalogger

-DL2 for user downloadable datalogger -A to omit VAC charger and batteries

BW TECHNOLOGIES GAS/ALERT/MICRO 5 MULTI-GAS DETECTORS

GasAlertMicro 5

Portable gas detector simultaneously monitors and displays up to five potential atmospheric hazards including O2, LEL and a range of toxic gases. Compact and lightweight, GasAlertMicro 5 comes housed in IP66 concussion-proof enclosure. Audible, visual and vibrator alarms activate in the event of a low, high, TWA or STEL alarm condition. An optional motorized pump is available for remote sampling. Beyond features that come standard with BW portable instruments such as confidence beep, full function self test, automatic calibration and passcode protection, GasAlertMicro 5 offers an extended selection of user-settable field options including: stealth mode, backlight options, selectable ppm resolution, STEL / TWA measurement choice, combustible correction factors, user-settable calibration gas concentrations and multi-language support.

Complete Specifications Available Upon Request

Features:

- Compact (5.7" x 2.9" x 1.5") and lightweight
- · Rugged, highly water-resistant design
- Continuous LCD shows simultaneous gas concentrations for up to five gases
- Integral concussion-proof enclosure for the most rugged environments
- Integral motorized pump option for remote sampling (optional)
- Two power options: three AA alkaline batteries or a rechargeable battery pack
- Provides 95 dB alarm tone (typical), two bright wideangled alarm bars and internal vibrating alarm for high noise areas
- Multiple language support in English, French, German, Spanish and Portuguese
- Four alarm levels: instantaneous Low and High Alarm for all gases; TWA (time weighted average) and STEL (short term exposure limit) for toxic gases

- Simple automatic calibration procedure; compatible with BW MicroDock II system
- Records TWA, STEL and maximum exposures to gas and displays readings on command
- User selectable field options include: confidence beep, pass code protection, latching alarm, calibration due date and "SAFE" display function, stealth mode, span level, selectable ppm resolution for some gases (e.g. SO2 0.1 ppm)
- Full function self-test of: sensor, battery and circuit integrity; and audible/visual alarms
- Two year warranty; including sensors
- GasAlertMicro 5 PID version also available

Ordering Information:

Part No. Description M5-XWSY-A-D-0-Y-N-00 5-gas detector, combustibles, oxygen, carbon monoxide, hydrogen sulfide, and sulphur dioxide, with AA batteries 5-gas detector, combustibles, oxygen M5-XWSY-R-D-0-Y-N-00 carbon monoxide, hydrogen sulfide, and sulphur dioxide, with rechargeable battery pack 4-gas detector, combustibles, oxygen, M5-XWOY-A-D-0-Y-N-00 carbon monoxide, and hydrogen sulfide, with AA batteries 4-gas detector, combustibles, oxygen, M5-XWOY-R-D-0-Y-N-00 carbon monoxide, and hydrogen sulfide, with rechargeable battery pack

Note: Also available with optional motorized pump - replace suffix: 0-Y-N-00 with 0-Y-N-00-A-D.

Packaging Contents:

Standard Versions: Complete with monitor and sensors (as specified), sensor compartment cover for diffusion operation, calibration adapter and hose, quick reference guide, interactive training and technical documentation CD, integral concussion-proof boot and 3 AA alkaline batteries.

Confined Space Kits: Include standard version contents plus foam lined carrying case for instrument and accessories, 34L cylinder(s) of calibration gas, 1.0 LPM calibration regulator (male) and tubing.

Motorized Pump Units: Include standard version contents plus motorized pump and cover (installed), 12 in. / 30 cm sample probe with hydrophobic barrier (water trap) and particulate filters, 10 ft. / 3 m sample tubing, five spare particulate filters and one spare water trap filter.

CALL 800.833.0247 281.479.9700

FAX 800.282.4365 **CALL US TODAY**

www.safetyfire.com

BW TECHNOLOGIES GAS/ALERT/CLIP EXTREME GAS DETECTORS

2-Year Gas Detection with Event Logging

Simply press the START/TEST button and the GasAlertClip Extreme is ready to use, providing two years of continuous, maintenance-free operation from the day of activation.

The GasAlertClip Extreme is highly water resistant, with a IP-66/67 housing fully immersible to a depth of one meter. The GasAlertClip Extreme housing includes a integral concussion-proof boot, and a heavy-duty, stainless steel, alligator style belt-clip. A large easy-to read LCD shows detector life remaining, alarm setpoints, and peak alarm exposures.

The detector's life remaining is displayed in months, days, then hours. A full-function self-test verifies sensor, circuitry and battery integrity as well as function of the audible, visual and vibrator alarms.

Stored data can be transmitted directly by IR link to a cordless infrared printer for immediate printout, or to a personal computer by means of a IR adapter connected to the computer's USB port.

The GasAlertClip Extreme is equipped with two alarm setpoints used to activate a high output 95 dB (typical) audible alarm, a bright, wide-angled quad LED visual alarm and a built-in vibrator alarm.

Complete Specifications Available Upon Request



Extreme protection! Extreme durability! Extreme value!

Simply clip the GasAlertClip Extreme to your lapel, pocket, belt or hard-hat for unequaled, cost-effective protection

Features:

- · Internal vibrator alarm
- Small size (1.1 x 2.0 x 3.2 in.) and lightweight (2.7 oz.)
- Maintenance free—no sensor or battery replacement, no calibration, no downtime
- Full-function self-test of audible/visual alarms, plus integrity of sensor, battery and circuitry
- Continuously ON—one-button activation, test and data transmission
- Comes complete with rugged, stainless-steel alligator belt clip and test cap
- · Instructions in local languages included
- Optional hard hat clips available

- Two years of protection with zero maintenance costs
- Continuous, alphanumeric, status LCD shows detector life remaining, alarm setpoints and advises self-test status
- Rugged, IP-66/67 highly water-resistant design
- · Built-in concussion-proof boot
- Records and displays the peak alarm encountered and the time elapsed since the exposure occurred
- Automatic event logging records 10 most recent alarm events that can be downloaded via infrared port
- Two alarm levels (Low / High)
- Provides typical 95 dB tone and bright, quad-LED indication on alarm

Ordering Information:

GasAlertClip for:	Measuring Range
Hydrogen sulfide Carbon monoxide	0-100 ppm 0-300 ppm
Oxygen	0-30% (% by vol)
Sulphur dioxide	0-100 ppm
	Hydrogen sulfide Carbon monoxide Oxygen

Accessories:

GA-HC-1	Hard hat clip (for use with alligator clips GA-AG 1 and 2)
GA-AG-1	Alligator clip (stainless steel)
GA-AG-2 GA-TC-1	Alligator clip (non-conductive) Test cap and hose
GA-TS02	Automatic test station

BW TECHNOLOGIES AUTOMATIC TEST STATIONS

Automatic Full-Function Test Stations

For Zero-maintenance and single gas detectors

Safe and Automatic

Test Stations are engineered for ease-of-use—simply insert the detector into the test well and press the red button. The station first verifies that the detector is installed, then tests the sensor response time, speed of response, alarm activation. Watch the color coded PASS/FAIL advice LED's as the test quickly progresses. If all tests are successful, the green PASS light activates to confirm the detector is ready for use.

Convenient and Economical

When a test is initiated, the solenoid automatically releases test gas to the detector. The flow of gas shuts off automatically when the test is complete, preventing any waste of test gas and protecting personnel form exposure to the gas. The AC adapter allows an unlimited number of units to be tested without the need for battery replacement.

Test Stations can be conveniently hung on a wall to be conspicuous reminder for individuals to test their detectors before entering a potentially hazardous area.



Simple and Easy

Simply insert the detector into the test-well and press the red button. Quality test-gases are available of all BW Technologies gas detection instruments.

Automatic full-function Test Stations are an economical solution for companies that use large number of gas detectors. Designed specifically for testing numerous units, Test Stations eliminate the risk of exposing personnel to toxic test-gas by providing a fast, safe and easy method of testing a detector's response to gas.

- Detector fully tested in 10-30 seconds
- · Easy and fully automatic
- PASS/FAIL advice on each test
- Test Stations verify all functions:

Sensor response to gas

Speed of response

Visual LED alarm activation

Audible alarm activation

- Economical use of test-gas
- Test Stations come complete with regulator, reinforced Teflon test-hose, AC wall-mount adapter and 9-volt battery
- Over 350 units tested on one 9-volt battery

Ordering Information:

Part No.	Description
GA-TS04	GasAlert 100 test station (for H2S, CO)
GA-TS02	GasAlertClip test station (for H2S, CO, O2)
GA-TS03	GasAlert & GasAlert LEL test station (for single gas detectors)

Accessories:

Test-Gas Cylinders - Order Gas Separately

G0042-H25 25 ppm H2S, balance nitrogen (58L) G0041-M100 100 ppm CO, balance nitrogen (130L) G0043-N2 100% nitrogen for oxygen units (103L)

CALL FAX 800.833.0247 800.282.4365 281.479.9700 281.479.6321 **CALL US TODAY**

www.safetyfire.com

281.479.6321 Download from Www.Somanuals.com. All Manuals Search And Download.

SCOTT® SCOUT® GAS DETECTOR

Whether it's downtime from a short battery life or a component failure, a non-working instrument can cost you. That's why the Scott Instruments Product Development Team has designed the Scout® with features that help assure continued reliability and durability and, in the event of a failure, fast repair time at lower costs.

Scott's modular pump and component assemblies will minimize downtime. Unlike many other portable detectors, should a failure of a pump occur, the Scout® can continue to be operated with a hand aspirator or a new pump can be simply plugged in. In fact, all Scout's major components are modular and designed for simple, fast replacement in the field.



Scout's advanced battery management technology makes every second count. Scout's exclusive ABMT™ feature provides up to 50 hours (30 with pump) of runtime and, with the wireless charger, fast re-charge time. Unlike many other similar instruments, Scout's battery pack is simple to release without having to unscrew or remove components.

Sensors can be replaced, or calibration performed, prior to a critical need situation. The Scout's "Sensor End-of-Life" and "Days to Calibration" features provide added assurance that Scout operators will remain aware of the instrument's operational status. In addition, Scout performs other routine software and electronic diagnostics every time the instrument is powered up for use.

Features:

Innovative IntelliShutter™

Allows users to quickly change from standard (diffusion) mode to sample draw mode (on-the-fly)

Rugged and Easy to Use

Can be dropped from 6 ft. and submerged in a foot of water without any ill-effects

Wireless Charging

Simply place it in its charging cradle and quick charged in under 4 hours to 50 hours of runtime

Powerful Modular Pump

Optional integrated pump permits samples to be taken from up to 100 ft. away

See Next Page for The Most Popular Scott® Instrument Configurations

Specifications:

Toxic Sensor	
Gas	Range PPM
Ammonia (NH3)	0-200
Carbon Monoxide (CO)	0-1500
Hydrogen Cyanide (HCN)	0-100
Hydrogen Sulfide (H2S)	0-500
Nitric Oxide (NO)	0-999
Nitrogen Dioxide (NO2)	0-150
Oxygen (O2)	0-25%
Phosphine (PH3)	0-20
Sulfur Dioxide (SO2)	0-100
Combustible Sensor	0-5000 ppm/100% LEL
(methane calibrated)	

Pump

•	
Typical Flow Rate	500mlpm
Max Hose Length	100 feet with 1/8" ID Tubing
Max Draw Vacuum	12" H2O
Alarm Flow Rate	250mlpm
Internal Filter	70mm hydrophobic
Dimensions	7-1/2" L x 2-5/8" H x 4" W with Li-lon Battery Pack
Weight	_1.45 lbs Alkaline version with batteries
Power Source	3 C-Cell Battery Pack or 3 Li-lon Cell Battery Pack
Battery Life	50 Hours with combustible sensor, oxygen, 2 toxics and no pump in ambient conditions.

SCOTT® SCOUT® PRECONFIGURED INSTRUMENTS

Instrument

Includes instrument in leather hoister and shoulder strap

Pump Units

Includes probe, tubing, and pump

Ordering Information - Carbon Monoxide (CO), Hydrogen Sulfide (H2S), Oxygen (O2), Combustibles (LEL)

			Batter	у Туре	
Part No.	No. of Gas(s)	Gas(s) Detected	Li-ion + Charger	Alkaline	Motorized Pump
096-2561-14	4	CO/H2S/O2/LEL		Yes	Yes
096-2561-18	4	CO/H2S/O2/LEL	Yes		Yes
096-2561-22	4	CO/H2S/O2/LEL		Yes	
096-2561-26	4	CO/H2S/O2/LEL	Yes		
096-2561-15	3	CO/O2/LEL		Yes	Yes
096-2561-16	3	H2S/O2/LEL		Yes	Yes
096-2561-19	3	CO/O2/LEL	Yes		Yes
096-2561-20	3	H2S/O2/LEL	Yes		Yes
096-2561-23	3	CO/O2/LEL		Yes	
096-2561-24	3	H2S/O2/LEL		Yes	
096-2561-27	3	CO/O2/LEL	Yes		
096-2561-28	3	H2S/O2/LEL	Yes		
096-2561-17	2	O2/LEL		Yes	Yes
096-2561-21	2	O2/LEL	Yes		Yes
096-2561-25	2	O2/LEL		Yes	
096-2561-29	2	O2/LEL	Yes		

Value Confined Space Entry Kit

Includes instrument in leather holster and shoulder strap, 34 liter calibration cylinder, fixed flow regulator without gauge, FEP tubing and carrying case

			Batter	у Туре			
Part No.	No. of Gas(s)	Gas(s) Detected	Li-ion + Charger	Alkaline	Motorized Pump	Case	Cal. Kit
096-2561-01	4	CO/H2S/O2/LEL		Yes	Yes	Yes	Yes
096-2561-02	3	CO/O2/LEL		Yes	Yes	Yes	Yes
096-2561-03	3	H2S/O2/LEL		Yes	Yes	Yes	Yes
096-2561-04	2	O2/LEL		Yes	Yes	Yes	Yes

Premium Confined Space Entry Kit

Includes instrument in leather holster and shoulder strap, 34 liter calibration cylinder, demand flow regulator with gauge, FEP tubing and premium water-tight Pelican carrying case

			Batter	у Туре			
Part No.	No. of Gas(s)	Gas(s) Detected	Li-ion + Charger	Alkaline	Motorized Pump	Case	Cal. Kit
096-2561-05	4	CO/H2S/O2/LEL		Yes	Yes	Yes	Yes
096-2561-09	4	CO/H2S/O2/LEL	Yes		Yes	Yes	Yes
096-2561-06	3	CO/O2/LEL		Yes	Yes	Yes	Yes
096-2561-07	3	H2S/O2/LEL		Yes	Yes	Yes	Yes
096-2561-10	3	CO/O2/LEL	Yes		Yes	Yes	Yes
096-2561-11	3	H2S/O2/LEL	Yes		Yes	Yes	Yes
096-2561-08	2	O2/LEL		Yes	Yes	Yes	Yes
096-2561-12	2	O2/LEL	Yes		Yes	Yes	Yes

CALL FAX 800.833.0247 800.282.4365 281.479.9700 281.479.6321 CALL US TODAY

www.safetyfire.com

Remarkable Performance at an Affordable Price:

The ultimate in Confined Space Gas Detectors: The PhD⁵ monitors up to five atmospheric hazards simultaneously; Oxygen, combustible gas, and up to three channels of toxic gas detection. Choose from a wide variety of toxic sensors; including Biosystems' innovative new Duo-Tox two-channel CO/H2S sensor to measure both carbon monoxide and hydrogen sulfide when both hazards are present without cross interference.

The PhD⁵ is housed in a rugged, compact, metal-plated case designed to stand up to the most demanding environments. All procedures necessary for day-to-day operation, including fully automatic calibration adjustment, are still controlled through a single button. The easy-to-read graphics display and navigation keys make the PhD⁵ even easier to use than earlier versions.



Most Common PhD⁵ Detector Configurations

Ordering Information

Part No.	Description	Part No.	Description
54-24-30000	LEL/O ₂	54-24-31400	LEL/O ₂ /Duo-Tox (CO/H ₂ S)
54-24-30100	LEL/O ₂ /CO	54-24-30300	LEL/O ₂ /SO ₂
54-24-30200	LEL/O ₂ /H ₂ S	54-24-30103	LEL/O ₂ /CO/SO2
		54-24-31403	LEL/O ₂ /Duo-Tox (CO/H ₂ S)/SO ₂

PhD⁵ Options (Add option code letter to part number)

Option	Code	Comments
Alkaline	Α	Alkaline configurations may be upgraded to NiCad/Alkaline after purchase.
Rechargeable	N	NiCad configuration includes charger and a spare alkaline battery pack.
Confined Spac Kit (CSK)	e C	Confined Space kits contain, standard accessories, standard sized calibration gas and fixed flow rate regulator, conveniently packaged in a rugged waterproof carrying case.
Value Pack	V	Value Pack kits contain, standard accessories, compact sized calibration gas, fixed flow rate regulator, and compact foam lined ABS carrying case.
Datalogging	D	Includes add-on board, which enables the PhD ⁵ to record measurements. This option is available as an upgrade after purchase. Download software must be purchased separately.
TouchID™	Т	Please note that datalogging is included automatically when the instrument is equipped with "Touch ID". TouchID buttons and programming software must be purchased separately.
Remote Alarm Connector	R	Remote alarm connector is required to connect optional remote alarm device. Remote alarm device must be purchased separately.

Training video is included with every PHD⁵ - See next page for accessories

BIOSYSTEMS PhD⁵ ACCESSORIES

Standard Accessories:

Each PhD5 detector is shipped complete with leather case, carrying strap, hand aspirated sample draw kit with 10 feet of tubing, operator's guide, reference manual, quick reference card, and comprehensive training video. The sample draw kit includes sample draw/calibration adapter, squeeze bulb, tubing, sample probe, and spare sample probe filters. "Alkaline" PhD5 detectors include and alkaline battery pack and set of three AA disposable batteries. "Ni-Cad" PhD5 detectors include a Ni-Cad battery pack and slip-in "Datadock"/Fast Charger as well as a spare alkaline battery pack and set of three AA disposable batteries.

PhD⁵ Remote Accessories:

Part No.	Description
54-27-0101	Continuous sample pump for PhD ⁵ , slip on. Includes 10' of tubing and sample probe assembly.‡
54-27-0102	Continuous sample pump for PhD ⁵ , screw on. Includes 10' tubing and sample probe assembly.
54-05-A0401	Sample draw kit for PhD ⁵ . Includes adapter, squeeze bulb, 10' of tubing and sample probe assembly. Not for use with Cl ₂ , ClO ₂
54-05-A0403	Sample probe assembly. Does not include tubing, squeeze bulb, or sample draw adapter.
54-05-A0405	Sample probe assembly with 11.5 inch stainless steel probe tube. Does not include tubing, squeeze bulb, or sample draw adapter
10-263	Sample draw/calibration adapter for PhD ⁵ .

PhD⁵ "Smart Sensors"

Part No.		Description	Range
54-25-80	LEL	Combustible Gas	0-100%LEL
54-25-90	O2	Oxygen	0-30%/Vol.
54-25-01	CO	Carbon Monoxide	0-1000 PPM
54-25-02	H2S	Hydrogen Sulfide	0-200 PPM
54-25-14	Duo-Tox	Dual Channel CO / H2S Provides substance specific readouts for CO & H2S	CO: 0-1000 PPM H2S: 0-200 PPM
54-25-03	SO2	Sulphur Dioxide	0-25 PPM
54-25-21*	HN3	Ammonia	0-300 PPM
54-25-08* **	CL2	Chlorine (non-specific)	0-50 PPM
54-25-18* **	CL2	Chlorine (specific)	0-50 PPM
54-25-12* **	CIO2	Chlorine Dioxide (non-specific)	0-15 PPM
54-25-20* **	CIO3	Chlorine Dioxide (specific)	0-5 PPM

^{*} Special corrosive gas calibration adapter (No. 54-26-0405) required for proper calibration.

PhD⁵ Calibration Kit

281.479.9700

Part No.	Description
54-27-0501	Calibration Kit for PhD5 includes foam lined carrying case with room for up to three cylinders of
	calibration gas. Kit contains 12-023 regulator and other fittings. Kit does not include gas.

CALL FAX CALL US TODAY 800.833.0247 800.282.4365

^{**} The non-specific CL2 and CIO2 sensors can be used for the detection of both gases. The specific CL2 and CIO2 sensors are designed for the target gas only.

The PhD Ultra multi-gas detectors are designed to monitor up to four atmospheric hazards simultaneously. The PhD Ultra detector measures oxygen, combustible gas, and up to two toxic additional toxic gases. It also includes the added feature of automatic datalogging. The instrument automatically logs data such as gas readings, turn on/off times, calibration dates, temperature, battery conditions, types of sensors installed, sensor serial numbers, warranty expiration, service due dates, current alarm settings, location and user ID.

Optional Datalink software provides 2-way communication between gas detector and personal computer, allowing programming, downloading, and data analysis. Data may be reviewed on the computer screen or used to automatically generate and print reports, tables and graphs.



Most Common PhD Ultra Configurations

Ordering Information

Part No.	Description
54-02-30000	LEL/O2
54-02-30100	LEL/O2/CO
54-02-30102	LEL/O2/CO/H2S
54-02-30103	LEL/O2/CO/SO2
54-02-30200	LEL/O2/H2S

PhD Ultra Options: (Add option code letter to part no.)

Option	Code	Comments
Alkaline	Α	Alkaline configurations may be upgraded to Nicad / Alkaline after purchase
Rechargeable	Ν	NiMH configuration includes charger and spare alkaline battery pack
Confined Space Kit (CSK)	С	Confined space kit contains, standard accessories, sized calibration gas and fixed flow regulator, conveniently packaged in a rugged waterproof carrying case
RFI Resistant Instrument Case	R ∍	PhD Ultra ordered with RFI option feature metal plated case for extra RFI protection
PRO configuration	Р	Substitute "N" (NiCad) with a "P". This configuration includes download softwear. NiCad battery and Datadock / Fast Charger.

Accessories

Ordering Information:

Part No.	Description
54-05-A0101	Continuous sample pump. Includes pump and 10 feet of sample tubing and sample probe assembly.
10-263	Sample draw/calibration adapter

Smart Sensors

Ordering Information:

_	
Part No.	Description
54-04-80	LEL - Combustible gas
54-04-90	O2 - Oxygen
54-04-01	CO - Carbon monoxide
54-04-02	H2S - Hydrogen sulfide
54-04-03	SO2 - Sulfur dioxide

BIOSYSTEMS CANNONBALL³ MULTI GAS DETECTORS

Continuous Sample Draw Multi Gas Detectors

Features

Design:

- Rugged RFI-protected case designed for the most demanding environments
- IP65 rated protected against dust and water

Pumps:

- Available with dual pumps for accurate dilution monitoring in inert environments without the use of a dilution orifice
- · Automatic leak test before every use

Recording:

- · Available with optional datalogging for convenient and easy downloading to a computer
- Available with optional TouchID™

Smart Sensors & Calibration:

• Four Sensors: O2, LEL and up to three toxic channels using the Duo-Tox two channel CO/H2S sensor

Batteries:

- Interchangeable alkaline (5 "D" cell) and rechargeable NiMH batteries
- · Operating Life: Alkaline - Up to 24 hours NiMH - Up to 16 hours

-		
Ordering Information:	Standard Version (1 Pump)	Dilution Version (2 Pumps)
Sensors Installed	Part No.	Part No.
LEL / O2	54-34-30000	54-35-30000
LEL / O2 / CO	54-34-30100	54-35-30100
LEL / O2 / H2S	54-34-30200	54-35-30200
LEL / O2 / Duo-Tox (CO/H2S)	54-34-31400	54-35-31400
LEL / O2 / CO / H2S	54-34-30102	54-35-30102

Cannonball³ Options: (Add option code letter to part no.)

Option	Code	Comments
Alkaline	Α	NiMH battery pack and charger may be purchased separately
Rechargeable	N	NiMH configuration includes charger. Alkaline battery packs may be purchased separately
Datalogging	D	Enables the Cannonball3 to record and download measurements. This option is available as an upgrade after purchase. Download software must be purchased separately. Computer must support IrDA to download.
TouchID™	Т	This option includes both datalogging and TouchID™ reader. TouchID™ buttons and programming software must be purchased separately.
Remote Alarm Connector	R	Remote alarm connector is required to connect an optional remote alarm device. Remote alarm device must be purchased separately.

Smart Sensors

Accessories

800.833.0247

Ordering Information: Ordering Information:

Ordering i	imormation.	Part No.	Description
Part No.	Description	54-25-80	LEL - Combustible gas
35-0379	Motorized sample draw pump module	54-25-90	O2 - Oxygen
35-0378	Motorized sample draw pump module	54-25-01	CO - Carbon monoxide
54.00.04	for dual pump version (2 pumps)	54-25-02	H2S - Hydrogen sulfide
54-36-01	Remote audible and visual alarm	54-25-14	Duo-Tox - Dual channel CO/H2S (provides substance specific readouts for CO & H2S)

CALL **FAX CALL US TODAY** 800.282.4365

www.safetyfire.com

281.479.9700 281.479.6321 Download from Www.Somanuals.com. All Manuals Search And Download. The Solaris[™] FX Multigas Detector is an affordable, durable, reliable, easy-to-use portable instrument for detecting the presence of O2, H2S, CO and combustible gas. It is designed to withstand rough handling in harsh environments.

Features:

Ergonomic Design and Lightweight

For maximum comfort. Under 8 oz., compact size that makes it easier to wear.

Alarm System

World class triple alarm system with 100+ decibel audible alarm, multiple high-intensity visual alarm and strong vibrating alarm.

Display Features

Superior display features simultaneous gas concentration display, backlighting for easy reading and alphanumeric message bar for easy use.

Durable

Case with rubberized armor provides superior protection against liquid and dust ingress (IP65 rated).

Long-Life Battery

Rechargeable lithium ion battery provides 14+ hours of continuous run time and delivers best-in-class performance in extreme conditions.

Warranty

Outstanding 2-year, all-inclusive warranty.



Solaris™ FX Kits

Ordering Information

		Pa	rt No.	
Basic Kits	Standard Kits*	Industrial Kits**	Deluxe Kits***	Description
1056449	1056453	1056457	1056461	4-Gas (LEL, O2, CO, H2S)
1056450	1056454	1056458	1056462	3-Gas (LEL, O2, CO)
1056451	1056455	1056459	1056463	3-Gas (LEL, O2, H2S)
1056452	1056456	1056460	1056464	2-Gas (LEL, O2)

^{*} Includes datalogging option

Solaris™ FX Accessories

Ordering I	nformation	Sampling	Probe
Part No.	Description	10046528	Universal pump probe (UL approved)
Replaceme	ent Sensors	Chargers	& Power Supplies
10055613	Combustible	10049410	Vehicle
10046946	Oxygen	10048185	Charge cradle assembly
10046944	Carbon monoxide	10047342	North American power supply
10046945	Hydrogen sulfide	10047343	Global power supply

^{**} Includes calibration kit

^{**} Includes calibration kit, datalogging & sampling pump

MSA PULSAR™ SINGLE GAS DETECTOR

Maintenance-Free

The PULSAR Single-Gas Detector is reliable, easy to use and durable with a service life of 24 months. With sensor options for CO, H2S or O2, this unit will provide maintenance-free performance and stand up to the roughest handling in even the toughest industrial environments.

Features:

- Two-year service life with no maintenance
- · Small, ultra-thin profile
- Leak-proof stainless steel Button™ sensors
- Long-life lithium battery can meet specification of two minutes of alarm mode per day.
- · Large easy-to read display
- Excellent water and dust resistance; IP54-rated
- Triple alarm system. Piercing audio, ultra-bright quadruple visual and optional vibrating alarms
- Extremely durable
- Lifetime warranty

(1) Instrument Type

1 = CO without vibrating alarm

2 = CO with vibrating alarm

3 = H2S without vibrating alarm

4 = H2S with vibrating alarm

5 = O2 without vibrating alarm

6 = O2 with vibrating alarm



Ordering Matrix - To obtain part number, write in numbers and letters from selections shown.

A-PULSAR-___-(1) (2)

(2) Alarm Setpoints

A = CO 25 ppm & 100 ppm	L = H2S 10 ppm & 15 ppm
B = CO 30 ppm & 60 ppm	M = H2S 10 ppm & 20 ppm
C = CO 35 ppm & 100 ppm	N = H2S 10 ppm & 25 ppm
D = CO 35 ppm & 400 ppm	O = H2S 15 ppm & 25 ppm
E = CO 50 ppm & 200 ppm	
F = CO 100 ppm & 300 ppm	W = O2 19.5% & 18.0%
G = CO 150 ppm & 200 ppm	X = O2 22.5% & 19.5%

Also available is the Pulsar $^{\text{TM}}$ + single-gas detector offering a gas-concentration display and a replaceable sensor and battery. Call for ordering information.

Approvals:

Approved for UL and ULC as intrinsically safe for use in Class I Div. 1, Groups A, B, C, and D.

CALL 800.833.0247 281.479.9700

FAX 800.282.4365 **CALL US TODAY**

The FiveStar Alarm provides the flexibility to meet your gas detection needs, yet is incredibly simple to use. The durable, high-impact case makes it long-lasting, while the advanced ergonomic design and software reduce worker load and simplify operation. This means less time spent training and less time out of service. Over its life, the FiveStar Alarm's ease of use, safety features, and long-term money savings combine to provide the best in gas detection available today.

The FiveStar Alarm's simplicity is obvious from the start:

- Three well-marked, easy-to-us keys.
- · Display faces user.
- High levels of RFI protection.
- Flexible smart sensors.
- Weatherproof IP54 rated.

The FiveStar Alarm's advanced software features mean safer operation:

- · Limits on sensor zeroing.
- Limits on one-button calibration.
- User acknowledges configuration changes.
- · Data recording is standard



The FiveStar Alarm saves money:

- · Unbeatable warranty and service.
- Long-life combustible sensor.
- One-button calibration saves training and gas.
- 5-gas capability means one detector can do the job of two.
- Battery "gas gauge" reduces down time.
- 20-hour NiMH battery option means one battery can do the job of two.

FiveStar Alarm Kits		Battery	Charger	Charger	ation Cap	check Pump	Line	Probe	er Jacket	ng Case	ation Kit
Part No.	Description	NiCd	AC Ch	Fast C	Calibration	Pulsecheck	10 ff. I	1 ff. Pı	Leather	Carrying	Calibration
10018002	Deluxe, 4-gas (LEL, O2, CO, H2S)	Х		Х		Х	Х	Х	Х	Х	Х
10018003	Deluxe, 3-gas (LEL, O2, CO)	Х		Х		Х	Х	Х	Х	Х	Х
10018004	Deluxe, 3-gas (LEL, O2, H2S)	Х		Х		Х	Х	Х	Х	Х	Х
10018005	Industrial, 4-gas (LEL, O2, CO, H2S)	Х	Х			Х	Х	Х	Х		
10018006	Industrial, 3-gas (LEL, O2, CO)	Х	Х			Х	Х	Х	Х		
10018007	Industrial, 3-gas (LEL, O2, H2S)	Х	Х			Х	Х	Х	Х		
10018008	Economy, 4-gas (LEL, O2, CO, H2S)	Х	Х		Х						
10018009	Economy, 3-gas (LEL, O2, CO)	Х	Х		Х						
10018030	Economy, 3-gas (LEL, O2, H2S)	Х	Х		Х						

FiveStar® Accessories

Approved for use in Class I Div. 1, Groups A, B, C and D; Class II Div. 1, Groups E, F, G; and Class III hazardous locations.

Replacement Sensors Sample Lines Chargers Part No. Description 497333 10-foot 494716 110V 710317 Combustible 497335 25-foot 495965 220V 815333 Oxygen Replacement Battery **Probes** 710656 Carbon monoxide Part No. Description 8000333 3-foot plastic 710657 Hydrogen sulfide 10013145 Heavy-duty NIMH 710664 Sulfur dioxide

MSA ORION™ FX MULTIGAS DETECTOR

The Orion™ FX Multigas Detector is a low-cost, reliable and easy-to-use portable instrument for detecting the presence of O2, H2S, CO and combustible gas. It will stand up to the roughest handling in even the toughest environments. A charger and optional built-in sampling pump are included in the price.

Features:

- One-button calibration
- Weather resistance rating of IP54
- Passes six-foot drop test
- Large, easy-to-read display
- Provides with NiMH battery, 16 hours of continuous operation in pump mode, 20 hours in non-pump mode

Approvals:

Approved for UL and ULC for use in Class I Div. 1, Groups A, B, C, and D.

- Provides with alkaline batteries, 8 hours of continuous operation in pump mode
- Durable and easily maintained sensors
- Carbon-filled-nylon case holds up under toughest conditions and corrosive environments



Orion™ FX Multigas Detector Kits		IH Battery & Charger	Alkaline Battery	Calibration Cap	Internal Pump	ft. Line	. Probe	Orange Cordura Case	alibration Kit	ck Economy Case	ot
Part No.	Description	NIMH	Ak	Cal	Inte	101	1 ft.	Ora	Cal	Black	Boot
1056447	Deluxe, 4-gas, datalog (LEL, O2, CO, H2S)	Х			Х	Х	Х	Х	Χ	Х	Х
1056441	Deluxe, 4-gas (LEL, O2, CO, H2S)	Х			Х	Х	Х	Х	Х	Х	Х
1056442	Deluxe, 3-gas (LEL, O2, H2S)	Х			Χ	Х	Х	Х	Х	Х	Х
1056443	Deluxe, 3-gas (LEL, O2, CO)	Х			Х	Х	Х	Х	Χ	Х	Х
1056444	Industrial, 4-gas (LEL, O2, CO, H2S)	Х			Х	Х	Х	Х			Х
1056445	Industrial, 3-gas (LEL, O2, H2S)	Χ			Х	Х	Χ	Χ			Х
1056446	Industrial, 3-gas (LEL, O2, CO)	Х			Х	Х	Х	Х			Х

Orion™ FX Accessories

Ordering Information

Part No. Description Replacement Sensors 10055614 Combustible 10025940 Oxygen 711306 Carbon Monoxide 711307 Hydrogen Sulfide

Part No. Description Sample Lines 497333 10-foot 497335 25-foot **Battery Packs**

10031091 Rechargeable NiMH 10031092 Alkaline

Part No. Description Chargers

10020551 NiMH battery charger 10034276 Vehicle charger Probes

800332 1-foot long 800333 3-foot long

CALL FAX 800.833.0247 800.282.4365 281.479.9700

CALL US TODAY

www.safetyfire.com

281.479.6321 ___385__ Download from Www.Somanuals.com. All Manuals Search And Download.

The Watchman Multigas Monitor is a durable, portable instrument used to detect and monitor combustible gases, oxygen, and toxic gases in workplace atmospheres, especially in confined spaces such as manholes, storage tanks, tank cars, vaults, mines, and sewers. Designed for rugged handling, the monitor incorporates the state-of-the-art technology in a strong aluminum housing. The Watchman Monitor is ideal for long jobs in heavy industrial environments, as the instrument will run up to 16 hours on a single charge.



Approvals

Meets intrinsic safety testing requirements for use in Class I Div. 1, Groups A, B, C and D; Class II Div. 1, Groups E, F, G; and Class III hazardous locations.

Part No.	LEL Display	02	00	н ₂ s	Peak	STEL/TWA/Tag	AC Charger	10 ft. Line	Probe	Water Stop	Line Trap
711132 Industrial 4-Gas	Х	Х	Χ	Х	Х		Х	Х	Χ		Х
711406 Industrial 4-Gas	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	
711407 Industrial 3-Gas	Х	Х	Х		Х	Х	Х	Х	Х	Х	
711408 Industrial 3-Gas	Х	Х		Х	Х	Х	Х	Х	Х	Х	
711409 Industrial 2-Gas	Х	Х			Х	Х	Х	Х	Х	Х	

Notes:

No. 711407 Replaces old model 360 No. 711408 Replaces old model 361 No. 711409 Replaces old model 260

Watchman® Accessories

Ordering Information:

Replaceme	ent Sensors	Replacement Battery						
Part No.	Description	Part No.	Description					
478537	Combustible	814127	Heavy-duty NIMH					
480566	Oxygen	Chargers						
636240	Carbon monoxide	494716	110V					
636241	Hydrogen sulfide	495965	220V					
807476	Sulfur dioxide	Probes						
Sample Lir	nes	486934	18-inch plastic					
11955	10-foot	73743	3-foot plastic					
11913	25-foot	11961	3-foot brass					

DOOLEY TACKABERRY Fire and Safety Equipment - Sales/Systems

The perfect complement for a stationary toxic gas monitoring system

A personal monitor should be just that — personal. An instrument you can put on and forget about. Right up until the moment you need it. And that's just what MST Technology had in mind when it designed the MSTox 9001 Personal Toxic Gas Monitor. A monitor so small and lightweight that most of the time you won't even realize you are wearing it. Yet it is always ready to alert you the instant you encounter a potentially hazardous situation.

The heart of the MSTox 9001 is a fully warranted electrochemical sensor. Designed for optimum stability, sensitivity, and specificity, it reacts quickly with the gas being monitored, producing an electrical signal directly proportional to the actual gas concentration.

The MSTox 9001 continuously displays gas concentration on an easy-to-read liquid crystal display (LCD). So you can check ambient conditions or judge the severity of a release with just a quick glance at the instrument. Equally important, the MSTox 9001 features both acoustical and optical alarms that automatically alert you whenever gas concentrations exceed your pre-set levels.



Size: 3.63" x 1.83" x 0.82"

Detectable Gases

Ammonia (NH3)

Arsine (AsH3)

Bromine (Br2)
Carbon Monoxide (CO)

Chlorine (CI2)

Diborane (B2H6)

Fluorine (F2)

Germane (GeH4)

Hexamethyldisilazane (HMDS)

Hydrazine (N2H4)

Hydrogen (H2)

Hydrogen Bromide (HBr)

Hydrogen Chloride (HCI)

Hydrogen Cyanide (HCN)

Hydrogen Fluoride (HF)

Hydrogen Sulfide (H2S)

Nitric Oxide (NO)

Nitrogen Dioxide (NO2)

Ozone (O3)

Oxygen (O2)

Phosgene (COCI2)

Phosphine (PH3)

Silane (SiH4)

Teraethylorthosilicate

(TEOS)

Call for part number ordering information for each specific gas.

CALL 800.833.0247 281.479.9700 FAX 800.282.4365 **CALL US TODAY**

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com