
Cannonball3 Continuous Sample Draw Multi Gas Detectors

NEW



Features

Design

Rugged RFI-protected case designed for the most demanding environments
IP65 rated protection against dust and water
One button operation
Oversized (5" diagonal) backlit graphic display with automatic backlight
Super bright alarm lights visible in any direction
Multiple languages

Pumps

Field replaceable pump module
Available with dual pumps for accurate dilution monitoring in inert environments without the use of a dilution orifice
Dilution calibration regardless of tube length
Automatic low flow alarm
Automatic leak test before every use

Recording

Black-Box recorder with over 100 hours of storage
Available with optional datalogging for convenient and easy downloading to a computer
Available with optional patented TouchID™ for automatic input of user and location identification

Smart Sensors & Calibration

Four sensors. O₂, LEL and up to three toxic channels using Biosystems' Duo-Tox two channel CO/H₂S sensor (see matrix for available sensors)
User replaceable sensors
One button auto calibration
Calibration due reminder
Sensor span reserve indicators during calibration for predictive maintenance

PPM hydrocarbon configuration

Batteries

Interchangeable Alkaline (5 "D"-cell) and rechargeable (NiMH) batteries
Operating life
Alkaline: Up to 24 hours
NiMH: Up to 16 hours
Snap-on fast charger included with rechargeable (NiMH) configuration
Recharges in 4 hours

Standard Accessories

Built-in sample draw pump
Remote sampling probe with 10' of tubing and QD (quick disconnect) fittings
Shoulder strap

Rechargeable NiMH version includes charger
Operators guide
Quick reference guide
Training video



Cannonball3 Multi-Gas Detectors

Cannonball3 Configuration Matrix

Cannonball3 Sensors Installed Add To Part # ⇨	Standard Version (1 Pump)			Dilution Version (2 Pumps) [†]			
	Part No.	Alkaline (A)	NiMH (N)	Part No.	Alkaline (A)	NiMH (N)	
No Sensors Installed	54-34-00000	\$ 1,745.00	\$ 1,945.00	54-35-00000	\$ 2,045.00	\$ 2,245.00	
LEL / O ₂	54-34-30000	\$ 2,045.00	\$ 2,245.00	54-35-30000	\$ 2,345.00	\$ 2,545.00	
LEL / O ₂ / CO	54-34-30100	\$ 2,295.00	\$ 2,495.00	54-35-30100	\$ 2,595.00	\$ 2,795.00	
LEL / O ₂ / CO-H	54-34-31900	\$ 2,320.00	\$ 2,520.00	54-35-30100	\$ 2,620.00	\$ 2,820.00	
LEL / O ₂ / H ₂ S	54-34-30200	\$ 2,295.00	\$ 2,495.00	54-35-30200	\$ 2,595.00	\$ 2,795.00	
LEL / O ₂ / Duo-Tox (CO/H ₂ S)	54-34-31400	\$ 2,395.00	\$ 2,595.00	54-35-31400	\$ 2,695.00	\$ 2,895.00	
LEL / O ₂ / CO / H ₂ S	54-34-30102	\$ 2,545.00	\$ 2,745.00	54-35-30102	\$ 2,845.00	\$ 3,045.00	
LEL / O ₂ / SO ₂ [†]	54-34-30300	\$ 2,345.00	\$ 2,545.00	54-35-30300	\$ 2,645.00	\$ 2,845.00	
LEL / O ₂ / CO / SO ₂ [†]	54-34-30103	\$ 2,595.00	\$ 2,795.00	54-35-30103	\$ 2,895.00	\$ 3,095.00	
LEL / O ₂ / H ₂ S / SO ₂ [†]	54-34-30203	\$ 2,595.00	\$ 2,795.00	54-35-30203	\$ 2,895.00	\$ 3,095.00	
LEL / O ₂ / Duo-Tox (CO/H ₂ S) / SO ₂ [†]	54-34-31403	\$ 2,695.00	\$ 2,895.00	54-35-31403	\$ 2,995.00	\$ 3,195.00	
LEL / O ₂ / SO ₂ Ext. [†]	Available 3 rd Qtr. 2001	54-34-31500	\$ 2,345.00	\$ 2,545.00	54-35-31500	\$ 2,645.00	\$ 2,845.00
LEL / O ₂ / NH ₃		54-34-32100	\$ 2,395.00	\$ 2,595.00	54-35-32100	\$ 2,695.00	\$ 2,895.00
LEL / O ₂ / Cl ₂ (non-specific)		54-34-30800	\$ 2,345.00	\$ 2,545.00	54-35-30800	\$ 2,645.00	\$ 2,845.00
LEL / O ₂ / Cl ₂ (specific)		54-34-31800	\$ 2,345.00	\$ 2,545.00	54-35-31800	\$ 2,645.00	\$ 2,845.00
LEL / O ₂ / ClO ₂ (non-specific)		54-34-31200	\$ 2,345.00	\$ 2,545.00	54-35-31200	\$ 2,645.00	\$ 2,845.00
LEL / O ₂ / ClO ₂ (specific)		54-34-32000	\$ 2,345.00	\$ 2,545.00	54-35-32000	\$ 2,645.00	\$ 2,845.00
LEL / O ₂ / NO ₂		54-34-30900	\$ 2,345.00	\$ 2,545.00	54-35-30900	\$ 2,645.00	\$ 2,845.00

**Please refer to the Cannonball3 Smart Sensor matrix on page 3 for more detailed sensor information
Call Biosystems For Additional Sensor Combinations**

[†] The detection range of the standard SO₂ sensor is 0.0 - 25 in 0.1 PPM increments. The detection range of the extended range SO₂ sensor is 0 – 100 in 1 PPM increments

[‡] The dilution version of the Cannonball3 allows for accurate gas detection in inert environments without the use of a dilution orifice.

Cannonball3 Options (Add option code letter to the part number and option price to the instrument price)

Option	Code	Price	Comments
Alkaline [‡]	A	See Matrix	NiMH battery pack and charger may be purchased separately.
Rechargeable [‡]	N		
Datalogging	D	\$200.00	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™	T	\$300.00	This option includes both datalogging and TouchID™ reader. TouchID™ buttons and programming software must be purchased separately.
Remote Alarm Connector	R	\$ 75.00	Remote alarm connector is required to connect an optional remote alarm device. Remote alarm device must be purchased separately.



PPM HYDROCARBON CONFIGURATION. CALL FOR AVAILABILITY AND PRICING!

Most Common Cannonball3 Accessories

Part No.	Description	Price
35-0379	Cannonball3 motorized sample draw pump module	\$ 295.00
35-0378	Cannonball3 motorized sample draw pump module for dual pump version (2 pumps). The Cannonball3 must be configured for dual pump.	\$ 495.00
54-36-01	Cannonball3 Remote audible and visible alarm (Available 3 rd Qtr 2001)	\$ 200.00
35-0376	Cannonball3 Alkaline battery pack ("D"-Cell batteries not included)	\$ 60.00
35-0377	Cannonball3 NiMH battery pack	\$ 175.00
54-26-0603	Cannonball3 BioTrak Software Kit. Includes BioTrak software and manual [†]	\$ 200.00
54-26-0605	Infrared communication device (Serial – IrDA) - <i>Requires one available PC serial port.</i>	\$ 150.00
54-27-0802	TouchID™ programming kit. Includes software, programming wand, serial connector, 10 buttons, 10 key chain / wall mounts for TouchID™ buttons and 10 TouchID™ badges	\$ 200.00



Cannonball3 Accessories

Cannonball3 Remote Accessories

Part No.	Description	Price
35-0379	Cannonball3 motorized sample draw pump	\$ 295.00
35-0378	Cannonball3 motorized sample draw pumps for dual pump version. The Cannonball3 must be configured for dual pump.	\$ 495.00
54-36-03	Cannonball3 Sample probe with plastic extension and male quick disconnect	\$ 40.00
54-36-04	Cannonball3 Sample probe with stainless steel extension and male quick disconnect	\$ 45.00
54-36-05	Cannonball3 Sample probe with plastic extension and threaded for quick disconnect fitting.	\$ 25.00
54-36-06	Cannonball3 Sample probe with stainless steel extension and threaded for quick disconnect fitting	\$ 30.00
54-36-07	Cannonball3 Sample probe male quick disconnect	\$ 15.00
54-36-08-010	Cannonball3 Extension hose, 10 feet with male and female quick disconnect	\$ 40.00
54-36-08-025	Cannonball3 Extension hose, 25 feet with male and female quick disconnect	\$ 55.00
54-36-08-050	Cannonball3 Extension hose, 50 feet with male and female quick disconnect	\$ 80.00
54-36-08-100	Cannonball3 Extension hose, 100 feet with male and female quick disconnect	\$ 130.00
54-36-09	Cannonball3 set of male and female quick disconnects	\$ 30.00
54-36-01	Cannonball3 Remote audible and visible alarm (Available 3 rd Qtr. 2001)	\$ 200.00

Cannonball3 “Smart Sensors”

Part No.	Description	Range	Resolution	Price
54-25-80	LEL Combustible gas	0 – 100% LEL	1% LEL	\$ 150.00
54-25-90	O ₂ Oxygen	0 – 30%/Vol.	0.1%	\$ 150.00
54-25-01	CO Carbon monoxide	0 – 1000 PPM	1 PPM	\$ 250.00
54-25-05	CO+ CO Plus dual purpose CO / H ₂ S Provides a non-specific readout for CO & H ₂ S	CO: 0 – 1000 PPM H ₂ S: 0 – 200 PPM	1 PPM	\$ 250.00
54-25-19	CO-H CO Minus, reduced sensitivity to H ₂	0 – 800 PPM	1 PPM	\$ 300.00
54-25-02	H ₂ S Hydrogen sulfide	0 – 200 PPM	1 PPM	\$ 250.00
54-25-14	Duo-Tox Dual channel CO/H ₂ S Provides substance specific readouts for CO & H ₂ S	CO: 0 – 1000 PPM H ₂ S: 0 – 200 PPM	1 PPM	\$ 350.00
54-25-03	SO ₂ Sulfur dioxide	0 – 25 PPM	0.1 PPM	\$ 300.00
54-25-15	SO ₂ -Ext Sulfur dioxide extended range	0 – 100 PPM	1 PPM	\$ 300.00
54-25-21 [†]	NH ₃ Ammonia	0 – 300 PPM	1 PPM	\$ 350.00
54-25-08 ^{†‡}	Cl ₂ Chlorine (non-specific)	0 – 50 PPM	0.1 PPM	\$ 300.00
54-25-18 ^{†‡}	Cl ₂ Chlorine (specific)	0 – 50 PPM	0.1 PPM	\$ 300.00
54-25-12 ^{†‡}	ClO ₂ Chlorine dioxide (non-specific)	0 – 15 PPM	0.1 PPM	\$ 300.00
54-25-20 ^{†‡}	ClO ₂ Chlorine dioxide (specific)	0 – 5 PPM	0.01 PPM	\$ 300.00
54-25-09 [†]	NO ₂ Nitrogen dioxide	0 – 50 PPM	0.1 PPM	\$ 300.00

[†] Special reactive gas calibration adapter (54-36-16) required for proper calibration. Inert tubing is required for proper calibration and remote sampling

[‡] The non-specific Cl₂ and ClO₂ sensors can be used for the detection of both gases. The specific Cl₂ and ClO₂ sensors are designed for the target gas only.



Cannonball3 Accessories

Cannonball3 Charging, Datalogging & TouchID™ Accessories

Part No.	Description	Price
54-36-10	Cannonball3 Snap-on fast charger (110VAC)	\$ 175.00
54-36-11	Cannonball3 Snap-on fast charger (12VDC) (Available 3 rd Qtr 2001)	\$ 125.00
35-0376	Cannonball3 Alkaline battery pack (batteries not included)	\$ 60.00
35-0377	Cannonball3 NiMH battery pack	\$ 175.00
54-36-13	Cannonball3 Datalogger upgrade †‡	\$ 200.00
54-26-0603	Cannonball3 BioTrak Software Kit. Includes BioTrak software and manual †	\$ 200.00
54-26-0605	Infrared communication device (Serial – IrDA) - <i>Requires one available PC serial port.</i>	\$ 150.00
54-27-0802	TouchID™ programming kit. Includes software, programming wand, serial connector, 10 buttons, 10 key chain / wall mounts for TouchID™ buttons and 10 TouchID™ badges	\$ 200.00
54-27-0805	10 TouchID™ buttons	\$ 100.00
54-27-0811	100 TouchID™ buttons	\$ 750.00
54-27-0807	10 TouchID™ key ring / wall mounts. Does not include TouchID™ buttons	\$ 20.00
54-27-0812	100 TouchID™ key ring / wall mounts. Does not include TouchID™ buttons	\$ 150.00
54-27-0810	10 TouchID™ badges. Does not include TouchID™ buttons	\$ 10.00
54-27-0813	100 TouchID™ badges. Does not include TouchID™ buttons	\$ 75.00

† Computer must be equipped with infrared adapter (IrDA) to download

‡ Download software not included

Cannonball3 Miscellaneous Accessories

Part No.	Description	Price
13-174	Cannonball3 Reference Manual	\$ 10.00
13-175	Cannonball3 Quick Reference Guide	\$ 1.00
22-143	Cannonball3 Training Video	\$ 20.00
42-002	Cannonball3 Shoulder strap	\$ 7.00
54-36-20	Cannonball3 Gasket service kit. Includes 6 filter gaskets, 2 pump gasket, 2 battery gasket and lubricant for gaskets	\$ 15.00
54-36-17	Internal filter kit for Cannonball3. (10 ea. particulate and 5 ea. hydrophobic).	\$ 10.00

Cannonball3 Calibration Materials & Carrying Cases

Part No.	Description	Price
54-36-14	Cannonball3 Calibration kit. 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	\$ 215.00
35-0453	Cannonball3 Waterproof "Pelican" style carrying case with room for one Cannonball3 and one cylinder of calibration gas	\$ 170.00
54-36-15	Cannonball3 Calibration tube with male quick disconnect	\$ 11.00
54-36-18	Cannonball3 Calibration balloon (not for use with Cl ₂ and ClO ₂).	\$ 10.00
54-36-16	Cannonball3 Inert calibration tube (for reactive gases) with male quick disconnect	\$ 11.00

