> > > **INSTRUMENTATION**

KEY FEATURES

DESIGN
■ Compact and rugged
■ One button operation
■ Easy to read front mounted backlit display
■ Over-molded boot

OPTIONAL SLIP-ON PUMP
■ Software controlled pump
■ Powered by the Biosystems MultiPro battery
■ Automatic low flow alarm
■ Automatic leak test before every use

RECORDING
■ Automatic event logger (20 events, including sensor type, max, average, time and duration)
■ Black-Box recorder with over 40 hours of storage
■ Available with optional datalogging for convenient and easy downloading to a computer

SENSORS AND CALIBRATION
■ Three sensors. O_2, LEL and CO, H_2S, or combined CO/H_2S sensor
■ User replaceable sensors
■ One button auto calibration
■ Calibration due reminder
■ Sensor span reserve indicators during calibration for predictive maintenance

BATTERIES
■ Interchangeable alkaline or rechargeable (Li-Ion) versions
■ Up to 22 hours run time depending on battery type
■ Drop-in charger
■ Recharges in less than 6 hours

BIOSYSTEMS MULTIPRO®   CONFINED SPACE GAS DETECTOR

A WORLD OF PROTECTION IN THE PALM OF YOUR HAND

The Biosystems MultiPro is the smallest and easiest to use confined space gas detector offered by Sperian Instrumentation. Extremely affordable, it is packed with features. It offers real time readings of up to 4 gases simultaneously, one-button operation including calibration, an easy to read LCD display, audible, visible and optional vibrating alarms, standard event logger and black box datalogger, an IrDA port for easy communication with a PC, and an optional sample draw pump – all in a rugged, compact and affordable instrument.

The Biosystems MultiPro does it all, and it can be configured for your exact needs. Three sensors and up to 4 channels of detection let you monitor for any combination of O_2, LEL, CO and H_2S. Compatibility with the Biosystems MultiPro IQ Express Dock allows users to automate recordkeeping while significantly reducing labor and calibration gas expenses.

The Biosystems MultiPro is constructed of an engineered polycarbonate frame with a rubber overmold, making it both tough and easy to handle. Power comes from interchangeable alkaline (3AA) or rechargeable battery pack. The optional sample draw pump is controlled by the instrument and automatically tests for proper seal whenever the pump is turned on. The instrument also automatically notifies the user if a blockage is detected at the pump.

Standard Accessories
■ Operators' guide
■ Training CD-ROM
■ Rechargeable Li-Ion version includes charger
■ Clothes clip
■ Laminated quick reference guide
■ Calibration adapter
■ Tubing

Most Common Biosystems MultiPro Detector Configurations

Part Number	Description
54-48-100	LEL
54-48-200	O_2
54-48-300	LEL / O_2
54-48-301	LEL / O_2 / CO
54-48-302	LEL / O_2 / H_2S
54-48-314	LEL / O_2 / Duo-Tox (CO/H_2S)

WEIGHT AND DIMENSIONS

- With Alkaline Battery: 9.9 ounces (280 grams); with pump: 13.1 ounces (370 grams)
- With Li-ion Battery: 7.8 ounces (220 grams); with pump: 10.9 ounces (310 grams)
- Dimensions: 4 1/2" (11.4 cm) H x 2 11/16" (6.8 cm) W x 1 11/16" (4.3 cm) D
- Dimensions with Pump Installed: 6 3/4" (17.1 cm) H x 2 11/16" (6.8 cm) W x 1 11/16" (4.3 cm) D

Biosystems MultiPro Options

Option	Code	Comment
Alkaline Rechargeable	A N	Biosystems MultiPro Alkaline and Li-Ion batteries are interchangeable. Li-Ion version includes charger. Both Li-Ion and Alkaline versions are available in value packs and Confined Space Kits.
Confined Space Kit (CSK)	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 foam-lined carrying case.
Datalogging	D	Enables the Biosystems MultiPro 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 or USB for use with an automatic dock.

Biosystems MultiPro Sensors

Part Number	Description	Range	Resolution
54-49-80	LEL – Combustible gas	0 – 100% LEL	1% LEL
54-49-90	O_2 – Oxygen	0 – 30%/Vol.	0.1%
54-49-25	CO – Carbon Monoxide	0 – 999 PPM	1 PPM
54-49-02	H_2S – Hydrogen Sulfide	0 – 200 PPM	1 PPM
54-49-14	Duo-Tox – Dual channel CO/H_2S Provides substance specific readouts for CO and H_2S	CO: 0 – 999 PPM H_2S: 0 – 200 PPM	1 PPM 1 PPM
54-49-200	Biosystems MultiPro Sensor Exchange set – O_2, LEL, Duo-Tox		
54-49-201	Biosystems MultiPro Sensor Exchange set – O_2, LEL, CO		
54-49-202	Biosystems MultiPro Sensor Exchange set – O_2, LEL, H_2S		

Biosystems MultiPro Remote Accessories

Part Number	Description
54-49-102	Continuous sample pump for Biosystems MultiPro. Includes 10' of sample tubing and sample probe assembly.
54-49-104	Sample draw/calibration adapter.
54-49-105	Sample draw kit. Includes adapter, squeeze bulb, 10' of tubing and sample probe assembly.
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" stainless-steel probe tube. Does not include tubing, squeeze bulb, or sample draw/calibration adapter.

Biosystems MultiPro Charging & Datalogging Accessories

Part Number	Description
54-49-103-1	Slip-in charger (110 VAC) for Biosystems MultiPro. Includes "wall cube" supply.
54-49-103-12	Slip-in charger (12 VDC) for Biosystems MultiPro. Includes "cigarette lighter" style adapter, and vehicle mounting hardware.
54-49-106	Biosystems MultiPro Alkaline battery pack.
54-49-107	Biosystems MultiPro Li-Ion rechargeable battery pack.
54-26-0603	Biosystems MultiPro BioTrak Software Kit. Includes BioTrak software and manual.
54-26-0605U	Infrared communication device (USB – IrDA) – Requires one available PC USB port.

Biosystems MultiPro Certifications: UL Class I, Division 1, Groups A, B, C, D Temp code T4; UL Class ll, Division 1, Groups E, F, G; UL Class III; CSA Class I, Division 1, Groups A, B, C, D Temp Code T4; ATEX (DEMKO) EEx ia d IIC T4; CE Mark; IECEx Ex ia d IIC T4; CQST (China) Ex ia d IIC T4

SPERIAN