



Biosystems PHD6

The Biosystems PHD6 is a state-of-the-art multi-gas detector from Sperian. It's the most configurable gas detector we've ever made with up to 6 channels of detection and over 19 sensor options.



Overview

Key Features

The Biosystems PHD6 is a state-of-the-art multi-gas detector. It is the most configurable gas detector we have ever made with 5 sensor ports, up to 6 channels of detection, and over 19 sensor options including electrochemical, LEL, PID and Infrared. Sperian built the PHD6 to be reliable and sophisticated while maintaining the ease of use that you have come to expect from us. Day-to-day detector operations are controlled entirely through the mode button. A status bar on the display, with easy-to-recognize icons, gives the user immediate access to everything from time to calibration status. Built-in and easy-to-navigate menus give advanced users the ability to configure the detector in the field.

Recommended Industries/Use

- Agriculture
- Chemical
- Construction
- Fire Protection
- Food Services
- Forestry
- Government
- Law Enforcement
- Manufacturing
- Medical
- Military
- Mining
- Municipal Services
- Oil and Gas
- Pharmaceutical
- Steel and Metals
- Transportation
- Utilities
- Welding

Hazards

- Confined Space
- Extreme Environment
- Explosion
- Gas, Vapors, Smoke

Historical Brand

Biosystems

Warranty Information

Instrument: 2 years, Standard Sensors: 2 years, PID Sensor: 1 year. Note: Components which by their design are consumed or depleted during normal operation, or which may require periodic replacement, shall be warranted to be free from defects in materials and workmanship for a period of 1-year from the date of purchase.

Specifications

Instrument Type	Multi-gas detector, replaceable battery and sensors
Dimensions	Instrument only: 17.1 x 8.3 x 6.4 cm (6.75" x 3.25" x 2.50" in) Instrument with pump installed: 21.6 x 8.3 x 6.7 cm (8.50" x 3.25" x 2.63" in)
Weight	Instrument only: 18oz/510g, Instrument with pump installed: 23oz/652g.
Smart Sensors and Calibration	5 sensors. Select from O2, LEL, PID and 16 toxic sensors. Use the Duo-Tox two channel CO/H2S sensor to achieve 6 channel functionality. Field replaceable sensors. Calibration due reminder. Sensor span reserve indicators during calibration for predictive maintenance.
Sensor Types	Electrochemical, Photo Ionization (PID), Non Dispersive Infrared (NDIR) and Catalytic Hot-Bead LEL
Alarms	Two peak alarms, TWA and STEL for toxic channels
Audible Alarm	Multi-tone audible alarm rated at 92dB
Vibrating Alarm	Optional
Visual Alarm	Three visible bright red LED alarm lights (front and side mounted)
Low Battery Alarm	Standard
Display	Displays readings from up to 6 gases on a top-mounted graphics type LCD
Display Backlight	Automatically activated in dark or dimly lit areas
Controls	One button operation for daily usage including automatic calibration
Clip	Clothes Clip Standard
Built-in Event Logger	Stores specific data from alarm events - Stores last 20 events
Black Box Data Recorder	Standard: stores a minimum of 63 hours of readings and other data
Readouts	Includes sensor type, max and average readings, time and duration
Replaceable Battery	Interchangeable alkaline and rechargeable (Li-ion)

	battery packs• Up to 24 hours battery life in either configuration• Drop-in fast charger/data dock• Recharges typically in less than 5 hours
Housing	Compact and rugged, solid polycarbonate case with a TPE (rubber) overmold, so it is both tough and easy to handle
Language	Multiple languages pre-programmed
Durability (IP Rating)	Meets IP65 standard for water protection.
Standard Accessories Included	Hand aspirated sample draw kit with 10 feet of tubing, sample probe and replacement filters• Alkaline version includes alkaline battery pack with 3 AA batteries• Li-ion rechargeable version includes battery pack and charger• Belt clip• Reference Manual• Laminated quick reference card• Training CD-Rom• Calibration adapter (s)
Datalogger upgrade optional	Provides convenient and easy downloading to a computer. The built-in IrDA port allows instruments with the Datalogger upgrade to be downloaded in the field to retrieve data on calibrations and exposure levels.
Slip-on pump upgrade optional	Software-controlled pump, powered by the PHD6 battery, automatic low flow alarm, automatic leak test before every use
Automatic Docking Station Available	Works with the IQ6 Dock which can calibrate common PHD6 configurations in under a minute while reducing labor time and calibration gas costs. With the IQ6 Dock, record keeping is automatic.
Safety Certifications	SGS USTC class 1 Division 1 Groups, A, B, C, D Temp code T3C (Approved to UL-913)• ATEX (DEMKO) Ex d ia IIC 150C (T3)• IECEx Ex d ia IIC 150C• CSA Class I Division I Groups A, B, C, D Temp Code T3C• NEPSI (Chinese) Approval Ex d ia IIC 150C (T3)

SKUs & Ordering Information

SKUs	Details
54-53-A01020380	O2/CO/H2S/SO2/LEL
54-53-A01020680	O2/CO/H2S/NO/LEL
54-53-A01020980	O2/CO/H2S/NO2/LEL
54-53-A01021080	O2/CO/H2S/HCN/LEL
54-53-A01021380	O2/CO/H2S/PH3/LEL
54-53-A01021580	O2/CO/H2S/SO2(ext range)/LEL
54-53-A01022180	O2/CO/H2S/NH3/LEL
54-53-A01025280	O2/CO/H2S/PID/LEL
54-53-A01028000	O2/CO/H2S/LEL
54-53-A01180280	O2/CO/Cl2(specific)/H2S/ LEL
54-53-A01200280	O2/CO/ClO2(specific**)/H2S/LEL
54-53-A02195280	O2/H2S/CO-H/PID/LEL
54-53-A02198000	O2/H2S/CO-H/LEL
54-53-A03140680	O2/SO2/Duo-Tox(CO/H2S)/NO/LEL
54-53-A03140980	O2/SO2/ Duo-Tox(CO/H2S)/NO2/LEL
54-53-A03141080	O2/SO2/ Duo-Tox(CO/H2S)/HCN/LEL
54-53-A03141380	O2/SO2/Duo-Tox(CO/H2S)/PH3/LEL
54-53-A03142180	O2/SO2/Duo-Tox(CO/H2S)/NH3/LEL
54-53-A03145280	O2/SO2/Duo-Tox(CO/H2S)/PID/LEL
54-53-A03148000	O2/SO2/Duo-Tox(CO/H2S)/LEL
54-53-A06140980	O2/NO/Duo-Tox(CO/H2S)/NO2/ LEL
54-53-A06141080	O2/NO/Duo-Tox(CO/H2S)/HCN/ LEL

54-53-A06141380	O2/NO/Duo-Tox(CO/H2S)/PH3/LEL
54-53-A06141580	O2/NO/Duo-Tox(CO/H2S)/SO2 (ext. range)/LEL
54-53-A06142180	O2/NO/Duo-Tox(CO/H2S)/NH3/LEL
54-53-A06145280	O2/NO/Duo-Tox(CO/H2S)/PID/LEL
54-53-A06148000	O2/NO/Duo-Tox(CO/H2S)/LEL
54-53-A09141080	O2/NO2/Duo-Tox(CO/H2S)/HCN/LEL
54-53-A09141380	O2/NO2/Duo-Tox(CO/H2S)/PH3/LEL
54-53-A09141580	O2/NO2/Duo-Tox(CO/H2S)/SO2 (ext. range)/LEL
54-53-A09142180	O2/NO2/Duo-Tox(CO/H2S)/NH3/LEL
54-53-A09145280	O2/NO2/Duo-Tox(CO/H2S)/PID/LEL
54-53-A09148000	O2/NO2/Duo-Tox(CO/H2S)/LEL
54-53-A10141380	O2/HCN/Duo-Tox(CO/H2S)/PH3/LEL
54-53-A10141580	O2/HCN/Duo-Tox(CO/H2S)/SO2 (ext. range)/LEL
54-53-A10142180	O2/HCN/Duo-Tox(CO/H2S)/NH3/LEL
54-53-A10145280	O2/HCN/Duo-Tox(CO/H2S)/PID/LEL
54-53-A10148000	O2/HCN/Duo-Tox(CO/H2S)/LEL
54-53-A13148000	O2/PH3/Duo-Tox(CO/H2S)/LEL
54-53-A14005280	O2/Duo-Tox(CO/H2S)/PID/LEL
54-53-A14008000	O2/Duo-Tox(CO/H2S)/LEL
54-53-A14152180	O2/SO2 (ext. range)/Duo-Tox(CO/H2S)/NH3/LEL
54-53-A14155280	O2/SO2 (ext. range)/Duo-Tox(CO/H2S)/PID/LEL
54-53-A14158000	O2/SO2 (ext.range)/Duo-Tox(CO/H2S)/LEL
54-53-A14180380	O2/Duo-Tox(CO/H2S)/Cl2 (specific)/ SO2/LEL

54-53-A14180680	O2/Duo-Tox(CO/H2S)/CI2 (specific)/NO/LEL
54-53-A14180980	O2/Duo-Tox(CO/H2S)/CI2 (specific)/NO2/LEL
54-53-A14181080	O2/Duo-Tox(CO/H2S)/CI2 (specific)/HCN/LEL
54-53-A14181580	O2/Duo-Tox(CO/H2S)/CI2(spec)/SO2 (ext. range)/LEL
54-53-A14182180	O2/Duo-Tox(CO/H2S)/CI2 (specific)/NH3/LEL
54-53-A14185280	O2/Duo-Tox(CO/H2S)/CI2 (specific)/PID/LEL
54-53-A14188000	O2/Duo-Tox(CO/H2S)/CI2 (specific)/LEL
54-53-A14200380	O2/Duo-Tox(CO/H2S)/CIO2 (specific)**/SO2/LEL
54-53-A14200680	O2/Duo-Tox(CO/H2S)/CIO2 (specific)**/NO/LEL
54-53-A14200980	O2/Duo-Tox(CO/H2S)/CIO2 (specific)**/NO2/LEL
54-53-A14201080	O2/Duo-Tox(CO/H2S)/CIO2 (specific)**/HCN/LEL
54-53-A14201580	O2/Duo-Tox(CO/H2S)/CIO2(spec)**/SO2 (ext. range)/LEL
54-53-A14202180	O2/Duo-Tox(CO/H2S)/CIO2 (specific)**/NH3/LEL
54-53-A14205280	O2/Duo-Tox(CO/H2S)/CIO2 (specific)/PID/LEL
54-53-A14208000	O2/Duo-Tox(CO/H2S)/CIO2 (specific)/LEL
54-53-A14215280	O2/Duo-Tox(CO/H2S)/NH3/PID/LEL
54-53-A14218000	O2/Duo-Tox(CO/H2S)/NH3/LEL

Additional Information

Each Biosystems PHD6 includes a built-in IrDA port that allows the instrument to be configured with a PC. PHD6 Options: Alkaline: Configurations may be upgraded to NiCad/Alkaline after purchase. Rechargeable: Li-ion configuration includes charger. Li-ion configuration is not available in Value Pack. Confined Space Kit (CSK): contains standard accessories, standard sized calibration gas and fixed flow rate regulator conveniently packaged in a rugged waterproof carrying case. Value Pack Kit: contains standard accessories, compact sized calibration gas, fixed flow rate regulator, and foam-lined carrying case. See matrix for available configurations. Datalogging: Enables the PHD6 to record and download measurements. This option is available as an upgrade after purchase. Download software must be purchased separately. Datalogging and Vibrating Alarms: Available as upgrades

Hazardous Materials

Calibration Gas Cylinders (Compressed Gas n.o.s.) UN1956

Training & Proper Use

All instruments shall include an interactive training cd-rom, reference manual and quick reference guide.

Additional Information

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Technical Support

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