



Key Features

- Integrated on-board controller allows unit to be used as a stand alone monitor, a remote sensing head and single point control unit or as a transmitter in a larger system.
- Integrated, twin color high-intensity strobes offer 200+ degree visible alarm. Yellow for Warning, Red for Danger.
- Integrated 105 dB horn offers highly distinctive audible alarm.
- Easy-to-read 3 digit backlit LCD screen displays real time gas readings.
- Tough IP66, NEMA 4X housing protects unit in harsh conditions or during wash-downs.
- Wide range of customizable options including: alarm levels, relay modes and strobe and horn enable/disable.
- Unit plugs into a standard wall outlet or can be wired into a controller power supply.
- On-board event logger records last 100 alarm events. Event logger has battery backup.
- Remote sensor option allows you to place the sensor up to 50 feet from base unit – allowing base unit to be placed in convenient location.

- Compatible with standard 3 wire 4-20 mA wiring.
- Sensors can be replaced without declassifying area.
- In stand-alone, single person. non-intrusive calibration can be done at the sensor head.
- Front mounted mode button can be disabled, if required.
- Three user-available programmable on-board relays: Warning, Danger and Fault.
- Fault relay notifies for loss of power or missing sensor.
- Optional alarm-latching keeps unit in alarm until manually disarmed.
- Twin NPT connection ports for fast connect without custom fittings.
- Firmware upgradable via IrDA connection.
- Includes 6 foot power cord standard. Optional 15 foot power cord available.
- Uses interchangeable smart sensors for easy change out without reconfiguration.
- Comes with full 18 month warranty.

Product Configurations

54-55-XXY		Biosystems NXP	
where XX = Senso	r Type;		
Y = Housing Color (0 – Light Grey, 1 – Safety Orange)			
	Product Code	Sensor Type	
	01 - CO	Carbon monoxide	
	02 – H ₂ S	Hydrogen sulfide	
	03 - SO ₂	Sulfur dioxide	
	08 - Cl ₂	Chlorine	
	13 - PH ₃	Phosphine	
	19 - CO-H	Carbon monoxide with reduced Hydrogen sensitivity	
	21 - NH ₃	Ammonia	
	80 – LEL*	Combustible Gas	
	90 - 0 ₂	Oxygen	

^{*}LEL sensors must be remotely mounted. The base unit must be mounted in a non-explosive environment. This configuration comes with the Explosion Proof Remote Sensor Kit and a LEL Sensor. Cable for Remote Sensor Kit is ordered separately.

Accessories

Part Number	Description	
Remote Sensor Kits		
1029227	Non-Explosion Proof Remote Sensor Kit	
1029226	Explosion-Proof Remote Sensor Kit	
Cable for Remote Sensor Kit		
1029244	5 ft / 1.5 m sensor cable	
1029246	10 ft / 3.0 m sensor cable	
1029247	50 ft / 15 m sensor cable	
Replacement Smart Sensor		
54-57-XXS	NXP Smart Sensor	
	XX = Sensor Type	

Case: NEMA 4X type, IP66

Dimensions & Weight: 11.0" x 6.50" x 3.56" (279.4 mm x 165.1 mm x 90.4 mm); 2.50 lbs (1.14 Kg) Humidity Range: Oxygen - 15% to 90%. Non-condensing

Power Source: 110 / 220 AC or 12-24 VDC Relays: 3: Danger, Warning and Fault Signal Output: 4-20 mA: Fault < 2 mA

Temperature Range: -20°C to 50°C (-4°F to 122°F) – sensor dependant

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SPERIAN





BIOSYSTEMS NXP

FIXED GAS DETECTION



Protection in under 5 minutes!

Stand-Alone Mode

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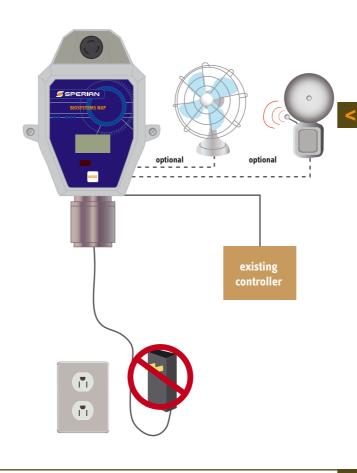
Perfect for monitoring occupied locations like loading docks, labs, warehouses and factory areas.

- 1. Mount the unit on a wall.
- 2. Plug the unit into a standard wall outlet.
- 3. Calibrate then relax knowing that you have 24/7 gas monitoring.

Upon alarm the unit will:

- Emit 105 dB audible alarm
- Activate the unit's high-intensity strobes





Controller Mode

(alarm only or active react)

Perfect for adding protection to existing fixed system installations.

- 1. Mount the unit on a wall.
- 2. Connect unit to existing 4-20 mA controller circuit.
- 3. Optionally, connect auxiliary units such as fans, vents or remote alarms.
- 4. Calibrate and relax knowing that you have 24/7 gas monitoring.

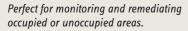
Upon alarm the unit will:

- Emit 105 dB audio alarm
- Activate the units twin high-intensity strobes
- Notify the central controller of the alert
- Trigger the auxiliary relays to turn on fans, open or close vents or activate remote alarms (if installed)

A/C power supply not required if unit is connected to a controller.

Stand-Alone, Active-React Mode

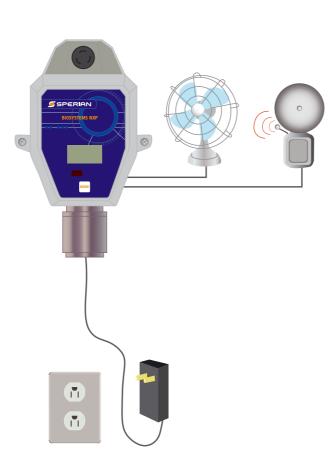


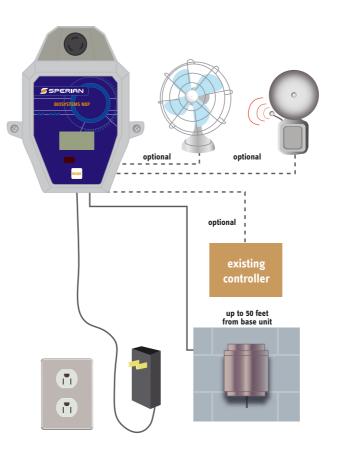


- 1. Mount the unit on a wall.
- 2. Connect auxiliary units such as fans, vents or remote alarms.
- 3. Plug the unit into a standard wall outlet.
- 4. Calibrate and relax knowing that you have 24/7 gas monitoring.

In case of alarm the unit will:

- Emit 105 dB audio alarm
- Activate the units twin high-intensity strobes
- Trigger the auxiliary relays to turn on fans, open or close vents or activate remote alarms





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Remote Sensing Mode

(alarm only or active react)

Perfect for monitoring either explosive* or non-explosive environments; confined spaces or unoccupied spaces.

- 1. Mount the base unit on a wall in a non-explosive location.
- 2. Remotely mount the sensor in the hazard area, up to 50 feet from base unit.
- 3. Connect the sensor to base unit using remote sensor kit.
- 4. Plug the base unit into a standard wall outlet.
- Connect auxiliary units such as fans, vents or remote alarms. if desired.
- 6. Calibrate and relax knowing that your confined spaces or dangerous locations have 24/7 gas monitoring.

In case of alarm the base unit will:

- Emit 105 dB audio alarm
- Activate the units twin high-intensity strobes
- Trigger the auxiliary units turn on fans, open or close vents or activate remote alarms, if installed
- *NOTE: If the sensor is mounted in a potentially explosive environment, sensor must be connected to the base unit following NEC guidelines for hazardous locations.

A/C power supply not required if unit is connected to a controller.