

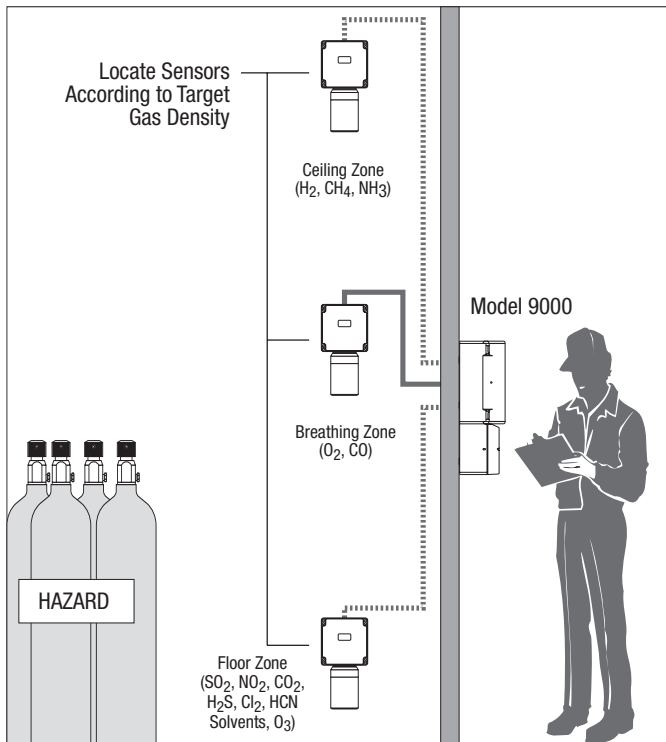
Model 9000 2-CHANNEL CONTROLLER

Accepts Oxygen, Toxic and Combustible Transmitter Inputs

- NEMA 4X UL Listed Enclosure
- Accepts Two 4-20 mA Inputs
- Graphic Backlit LCD Display
- Common Alarm Relays (2)
- Discrete LED Alarm Annunciation (6)
- Optional Discrete Alarm Relays (6)
- Optional 4-20 mA Output



Sensidyne functionally tests and calibrates all equipment and sensors prior to shipment.



SHELTER AND GAS BOTTLE STORAGE APPLICATION



Common Applications

Application	Law or Code ¹
General	
CO and Natural Gas in Utility Rooms	Fire Code
Gas Bottle Storage Areas	NFPA 55, Fire Code
CO and NO ₂ in Garages	OSHA
Combustible Liquid Storage (LEL)	NFPA 30, Fire Code
Motor Fuel & Repair Facilities	NFPA 30A, Fire Code
Municipal	
Methane (LEL) in Wet Wells (WWTP)	NFPA 820
H ₂ S, Oxygen Deficiency (WWTP)	OSHA
Cl ₂ , NH ₃ , SO ₂ Storage Areas (WWTP)	NFPA 55, OSHA
CO and NH ₃ in Public Arenas	ASHRAE 15, OSHA
Food and Beverage	
CO ₂ and NH ₃ in bottling areas	OSHA
NH ₃ in Engine Room	ASHRAE 15, OSHA
LEL, CO ₂ and O ₂ Deficiency (Fermentation)	OSHA
Cl ₂ , O ₃ , SO ₂ Disinfection Processes	OSHA
Chemical, Refining and Gas Processing	
Instrument Shelters (O ₂ , LEL, Toxics)	OSHA
Control Room Protection (Intake air duct)	OSHA

¹ The Uniform and International Fire Codes, plus other Fire and Building Codes incorporate Consensus Codes into law by direct reference. OSHA1910.1000, Tables Z1 and Z2, are the Federal hazardous exposure standard unless a more stringent State Law applies.

MODEL 9000 Two Channel Digital Controller

PRODUCT SPECIFICATIONS

Enclosure	NEMA 4X, Wall Mount Two 0.75 inch conduit entries on bottom.
Temperature	Controller: -25° to 50°C (-13° TO 122°F). Sensor/Transmitter: Consult specific sensor data
Humidity	0-95 %RH, non-condensing
Dimensions	9.30 (H) x 8.92 (W) x 3.20 (D) inches 23.6 (H) x 22.7 (W) x 8.1 (D) cm
Weight	7.5 lbs (3.4 kg)
Power	100 to 240 VAC, 50/60 Hz @ 20 Watts 24 VDC @ 20 watts
Controls	5 Button Keypad for System Menu and Channel Menu Cal Mode for one-button calibration. Authorization Mode for security. Alarm acknowledge function (ISA Alarm Sequence 3A)
Display	Graphic LCD (128 x 64) with backlight for Bargraphs, Value, and Measuring Units. LED (6) indication of Alarm Status
Outputs	2 Common 5 Amp, 30 VDC Resistive or 230 VAC, SPDT configurable contacts Discrete Relay (6) Alarm Card Optional

Optional Outputs

Dual 4-20 mA outputs (800 ohms maximum)

Note: Only one output option card permitted.

Approvals CE Mark

Warranty One Year from equipment start-up not to exceed 18 months from date of shipment.

SAMPLE A & E SPECIFICATION

Contractor shall furnish and install a two-point gas monitoring and alarming system in a NEMA 4X, UL listed enclosure, as directed by the specification, and complying with (insert code such as NFPA 30, or Uniform Fire Code). The system shall have integral common and discrete alarm relays for local annunciation. LEDs (6) shall signal alarm status. The controller will accept 2-wire or 3-wire Sensor/transmitters located up to 5000 feet away and be configurable for all monitored gases and functions such as adjustable alarm delay on and off.

The unit will simultaneously display both monitored gas values on an LCD Graphic display as bar-graphs, values, measuring units and alarm settings. 4-20 mA, RS-485 (Modbus protocol) or Modbus TCP output shall be optionally¹ provided. The sensor/transmitters shall be temperature compensated, intelligent, and have non-intrusive controls to minimize drift and reduce maintenance.

The contractor will provide a one year supply of spare parts, calibration gas kit, and system start-up and training of the owner's personnel. The contractor must observe NFPA 70 requirements for installing the gas detection system. The system shall be SensAlert with the Model 9000 Digital Controller, as manufactured by Sensidyne, Inc., or approved equal.

¹ Optional items should be specified by the engineer to fit the application requirements.

ORDERING INFORMATION

Description	Part Number
9000 NEMA 4X bottom conduit entry	820-0101-01
Options	
2 Channel 4-20 mA Analog Input PCB	299-0002-01
Discrete Alarms (adds six, 5 amp SPDT Relays for Alarm 1, Alarm 2, & Horn	299-0003-01
Discrete 4-20 mA Analog Outputs	299-0004-01

SensAlert® 4-20 mA, RS-485 and Infrared Universal Transmitters

Sensidyne universal transmitters accept all SensAlert sensors, and automatically configure and display gas type, value, and measuring units for the target gas. The firmware linearizes and compensates the sensor output,

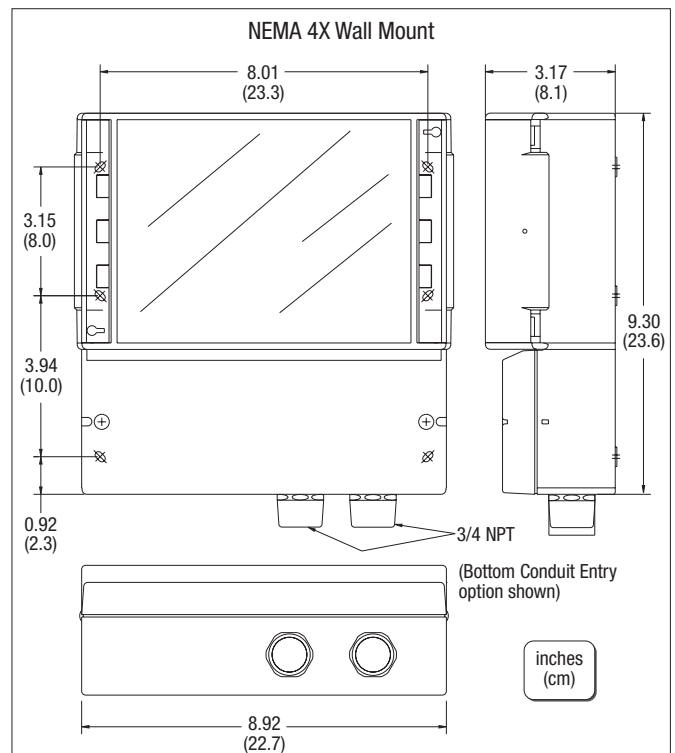
performs continuous diagnostics, and supports non-intrusive configuration and maintenance. SensAlert sensors can be mounted remotely, on ducts or vents, and equipped with sample draw systems.



NEMA 4X Transmitter

Class I, Division 2 Transmitter

Class I, Division 1 Transmitter (Splashguard not shown)



SENSIDYNE®

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Sensidyne products are third party approved to many different international codes and standards. Please consult individual product bulletins for approval listing.

