

# SBS-CH4 Methane Gas Detector

Complete Methane Detection System



The SBS-CH4 Methane Detector is a methane detection system with visual and audible alarms and 25%LEL and 50%LEL methane relays.

The system comes complete with the main control, a highly accurate methane gas sensor and a 25 ft. cable. This unit can be powered with AC and/or DC power and can be mounted directly to a wall or to an electrical box, making it extremely versatile and very user-friendly.

The SBS-CH4 includes relays for remote connection to alarm/monitoring systems and for control of external relays or an exhaust fan.

## Benefits

- Protects life, property and company profits
- Ideal for remote locations
- Fail safe mode in event of loss of power
- Up to three (3) sensors can be installed to main control to meet space coverage requirements

## Includes

- Main control
- Methane sensor
- 25 ft. cable

## Applications

- Agriculture and livestock
- Biomass facilities
- Chemical plants
- Processing facilities
- Oil, gas and refinery
- Methane fueled back-up power systems

## Features

- Universal power inputs: 110/220 Vac and/or 12-48 Vdc input
- Strobe light for visual alerts
- Sensor status indicator LEDs on the main control
- Modular design for optimal placement of sensor(s)
- NRTL/C Certified: UL Std. No. 61010-1
- CAN/CSA-C22.2 No. 61010-1-12



## Installation

- Wall or 2-gang junction box mountable
- Mechanical relays are easily accessible:
  - Warning 25% relay, 15 A @ 120 Vac; 10 A @ 277 Vac; 10 A @ 28 Vdc
  - Alarm 50% relay, 0.5 A resistive @ 28 Vdc, 0.5 A @ 125 Vac
- Redundant power supply capability; dual AC and/or DC power supply connections (DC power supply will operate as backup power source)
- Indicator LEDs can be tested by pushing the red "TEST" button
- Sensors can be tested in the field with the P/N CH4-TESTKIT

## Main Control Mounting and Power Options



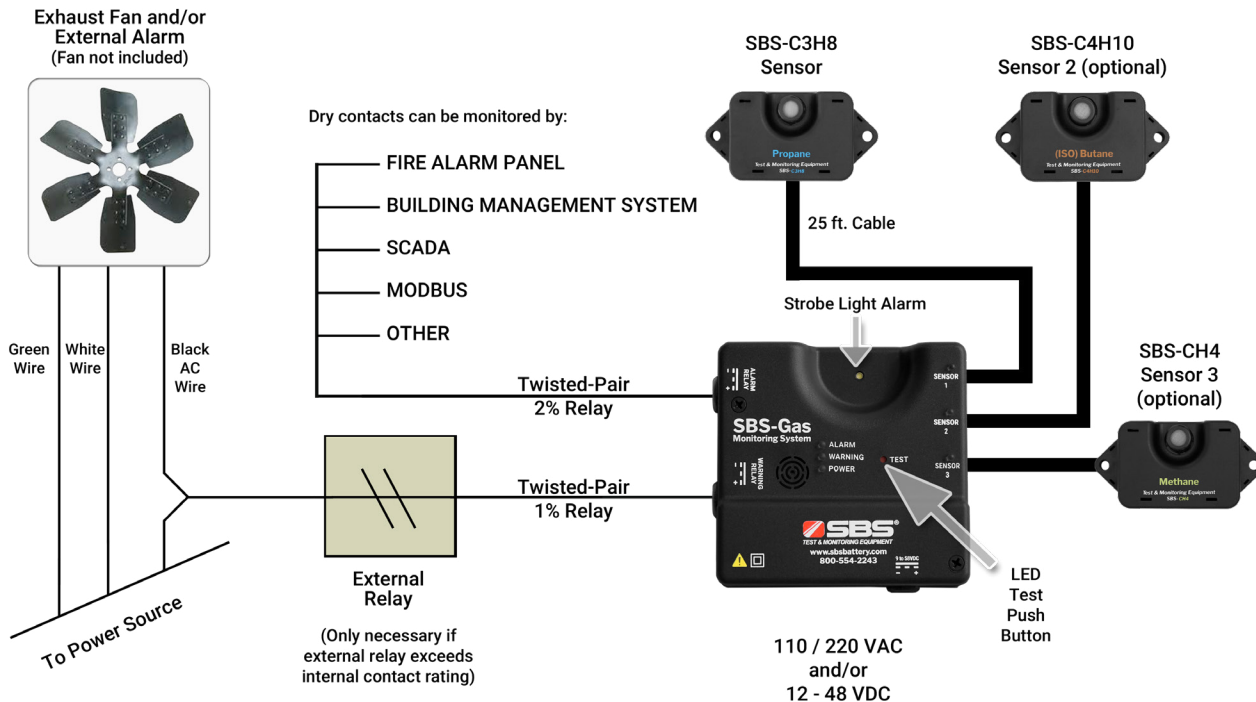
Wall-mountable



2-Gang Junction Box  
Hardwired AC and/or DC  
(optional)



18 AWG AC Cord (optional)



**Warning Settings:** Should the concentration of methane gas in the air surrounding the sensor reach 25%LEL by volume, the “25%LEL Warning” yellow LED will light up on the main control of the unit. In addition, the 25%LEL internal relay will energize and can be used to activate an external exhaust fan.

**Alarm Settings:** Should the methane gas concentration reach 50%LEL by volume, the “50% Alarm” red LED will light up, the strobe will flash and an audible alarm will sound. In addition, the 50%LEL internal relay will energize and can be used to activate a building management/alarm system (via SCADA/Modbus).

### Ordering Information

Part No.	Description
SBS-CH4	Methane detector with (1) sensor and 25 ft. cable

### Accessory Ordering Information

Part No.	Description
CH4-SENSOR-25FT	Additional methane sensor with 25 ft. cable
CH4-SENSOR-50FT	Additional methane sensor with 50 ft. cable
CH4-SENSOR-100FT	Additional methane sensor with 100 ft. cable
CH4-TESTKIT	Test kit (includes 25%LEL and 50%LEL methane, regulator, tubing and case) <b>Note: cannot ship via air freight</b>
CH4-JB	4 11/16" x 4 11/16" 2-gang junction box
E190399	AC Cord 110 V, 10 A, 10 ft. with plug

### Specifications

25%LEL Methane	Dry contacts rated 10A/250 Vac
50%LEL Methane	Dry contacts rated 0.5A/28 Vdc
Power source	110/220 Vac, 50/60 Hz and/or 12-48 Vdc (9-58 Vdc operating voltage)
Temperature	Sensor rating of -4° F to 176° F (-20° C to 80° C)
Size	4.7" L x 4.7" W x 1.2" D (main control)

### Available Accessories



Test Kit (international orders ship without compressed gas)



Additional Methane Sensor with 25 ft., 50 ft. or 100 ft. Cable



2-Gang Junction Box (Hardwired AC and/or DC)