

SMC Single Channel Controller

The SMC Single Channel Controller is a comprehensive hazardous gas detection monitoring system born with the flexibility and features that meet your specific applications. SMC has been a leader in hazardous gas detection technology for over 30 years and this latest generation of controller is designed for today's detection environments requiring intelligent network interface, minimal maintenance, comprehensive diagnostic information, smart sensor communications and easy to install interconnections.

- Bright, illuminated color LCD display
- Industry standard 2, 3 or 4-wire analog 4-20mA input with HART V7
- 3 independently adjustable 5 Amp relays per controller
- Analog output retransmission, 2-wire
- RS-485 Modbus RTU output, 2-wire
- Remote reset/acknowledge input connection
- 24 VDC power input +/- 10%



Operation

The controller operator interface and menu navigation can be accessed on the controller using a simple rotary push button to select and enter parameters on a brightly illuminated color LCD. The display changes color depending on alarm state: Green is normal, Yellow is Warning, Red is Alarm, and Blue is Fault. The three relays are Form C SPDT, rated at 5 Amps to connect to notification systems and appliances. The relay action can be selected as Non-Latching or Latching with a remote acknowledge input. Modbus RTU output is provided for connection to various supervisory systems, or an optional gateway. The analog output is a 2-wire retransmission of the measured input for trending or recording.

Features

- Analog 0-20mA input/output
- Three assignable 5 Amp relays
- RS-485 Modbus RTU

Benefits

- Industry standard analog input and output retransmission
- Versatile outputs for field alert devices and notification systems
- Remote monitoring supervisory capability with Cloud connectivity

Specifications

Controller

Type: Analog Indicating Controller

Construction

Dimensions: 4.25 x 1.25 x 4.5 inches

Weight: 0.44 lbs. (0.2 Kg)

Mounting

Standard DIN Rail

Limited Warranty

2 years

Power

Power consumption: 11 watts maximum

Input voltage: 24 VDC +/- 10%

Operating Range

Ambient Temp Range: -4° to 140 °F (-20° to 60°C)

Relative Humidity: 0-95% Non-Condensing

Controller Inputs

Power, 24 VDC +/- 10%

Analog: 0-20mA Signal 2, 3, 4 Wire Connection,

Current Sink, Current Source

2 wire digital input switch (reset/ACK)

Outputs

Relays: 5 Amp Form C, SPDT

Serial: Modbus RTU, RS-485 Half Duplex

Retransmission: 2-wire Analog 4-20mA, Linear, Current Source, Non-Isolated, 800 Ohm Max

Approvals

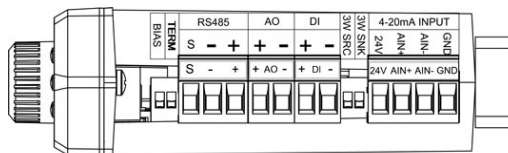
UL 62368-1/CSA C22.2 No. 62368-1, by Met Labs Listing No. E113697

Suitable for SIL 2 service, IEC 61508 standard

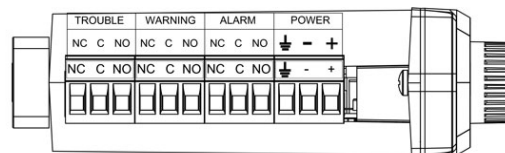


User Interface

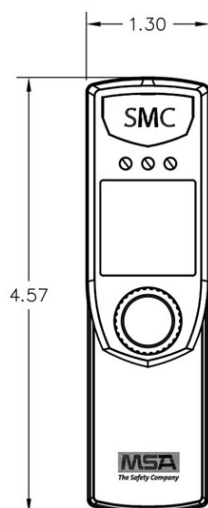
Easily navigate between menus by turning a rotary switch push button until the desired selection is highlighted. A simple push of the button selects the option. Follow the menu instructions and enter each parameter requested.



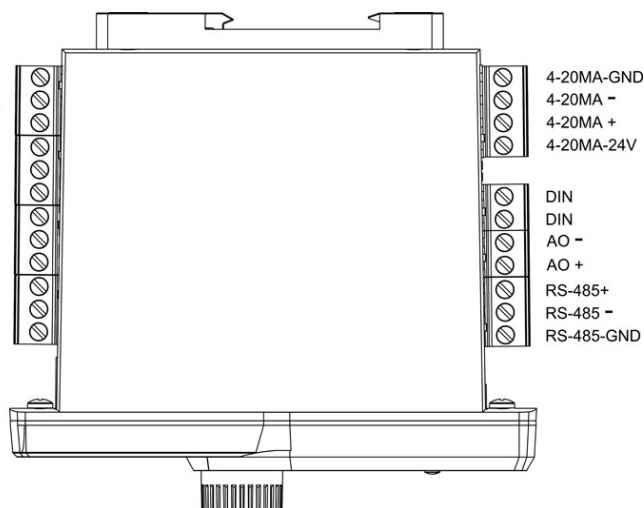
TOP VIEW



BOTTOM VIEW



RELAY 1 N/C
RELAY 1 COM
RELAY 1 N/O
RELAY 2 N/C
RELAY 2 COM
RELAY 2 N/O
RELAY 3 N/O
RELAY 3 COM
RELAY 3 N/C
FG
POWER -
POWER +



LEFT VIEW

Ordering Information

10219187

SMC Single Channel Controller DIN Mount

10222942

Surface Mount Flange Accessory

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.

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