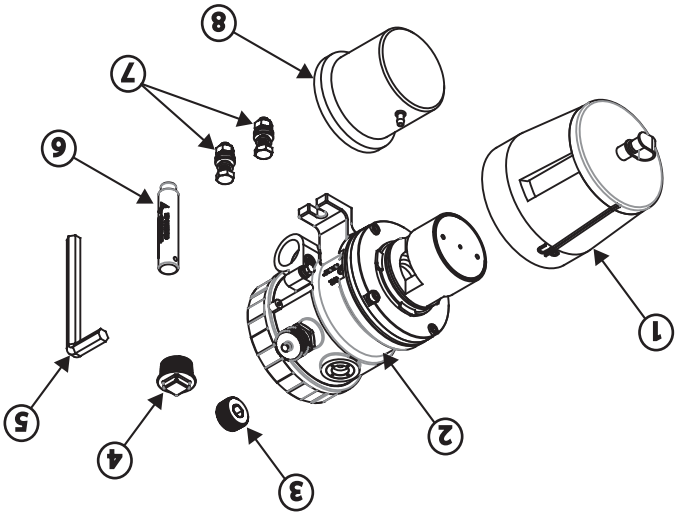


SGOES COMBUSTIBLE GAS DETECTOR
QUICK INSTALLATION GUIDE

COMPONENTS:



The typical SGOES delivery set consists of the following components

1. Protective Cap (Qty 1), P/N 125-0008
2. SGOES Combustible Gas Detector (Qty 1), P/N 100-001-M11-SS
3. 3/4" NPT Threaded Plug (Qty 1), P/N 420-0210
4. 3/4" NPT Threaded Plug w/ Raised Head (Qty 1), 125-0015
5. 10mm Hex Wrench (Qty 1), P/N 120-0078 *one provided per 10 SGOES
6. Calibration Magnet (Qty 1), P/N 120-0076 *one provided per 10 SGOES
7. Mounting Hardware (Qty 1 Set), P/N 125-0020
8. Calibration Cup (Qty 1), P/N 120-0023 *one provided per 10 SGOES

PAGE 1

This Quick Start Guide provides basic guidelines for mechanical and electrical

installation of the SGOES Combustible Gas Detector in preparation for

product startup. For detailed testing, troubleshooting and operation

instructions, refer to the SGOES Operating Manual.

The SGOES Operating Manual can be downloaded from the ESP Safety

website:

www.espsafetyinc.com

Prior to startup of the SGOES, review that the following have been

completed:

Pre Startup Checklist:

1. Verify that the SGOES has been properly mounted.

2. Verify that all conduit/cable gland entries have been tightened and sealed,

if necessary

3. Verify that all detector wiring has been installed correctly.

4. Verify that the detector is properly earth grounded.

5. If using the SGOES in conjunction with a Field Control Unit such as the

VECTOR, verify that the connections between the SGOES and the Field

Control Unit is secure and functional.

6. Verify that the SGOES rear cover is securely tightened and locked with the

housing cover lock screw.

7. Disconnect or power down all output devices and alarms to prevent false

actuation during functional testing.

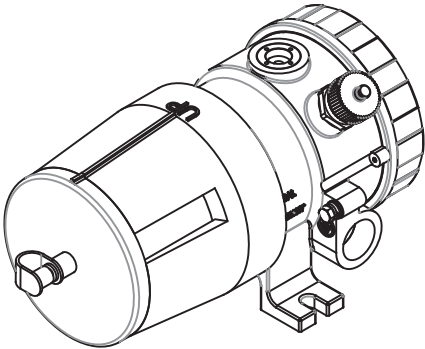
CONGRATULATIONS! You have successfully installed your SGOES Combust-

ible Gas Detector and are now ready to apply power and perform startup

PAGE 2

SGOES COMBUSTIBLE
GAS DETECTOR

SGOES-M11-SS-C1, Combustible Gas Detector (methane), P/N 100-0001-M11-SS-C1
SGOES-M11-SS-C3, Combustible Gas Detector (propane), P/N 100-0001-M11-SS-C3
SGOES-M11-SS-OTHER, Combustible Gas Detector (other), P/N 100-0001-M11-SS-OTHER



Contact ESP Safety:

USA

555 North First Street
San Jose, CA 95112
USA
Tel: (408) 886-9746
Fax: (408) 668-0848
email: info@espsafetyinc.com

The following items for the SGOES may be ordered:

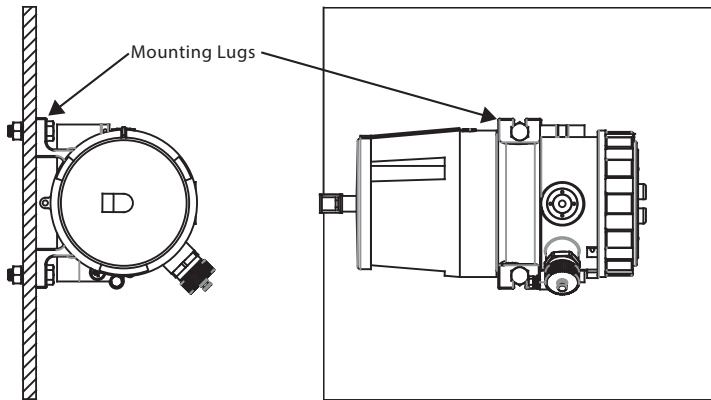
Accessories:

Calibration Magnet, P/N 120-0076
Calibration Cup, P/N 120-0023
Protective Cap, P/N 125-0008
HART Connection Cable, P/N 260-0009
RS-485 to USB Converter, P/N 260-0021

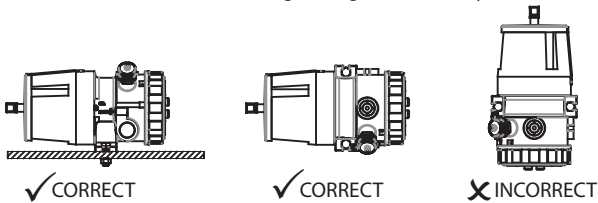
MECHANICAL INSTALLATION:

1. Secure mounting bracket to a stable surface using the SGOES's integral mounting lugs

Attaching to a Vertical Surface:



The SGOES must be mounted with the long axis aligned horizontally.

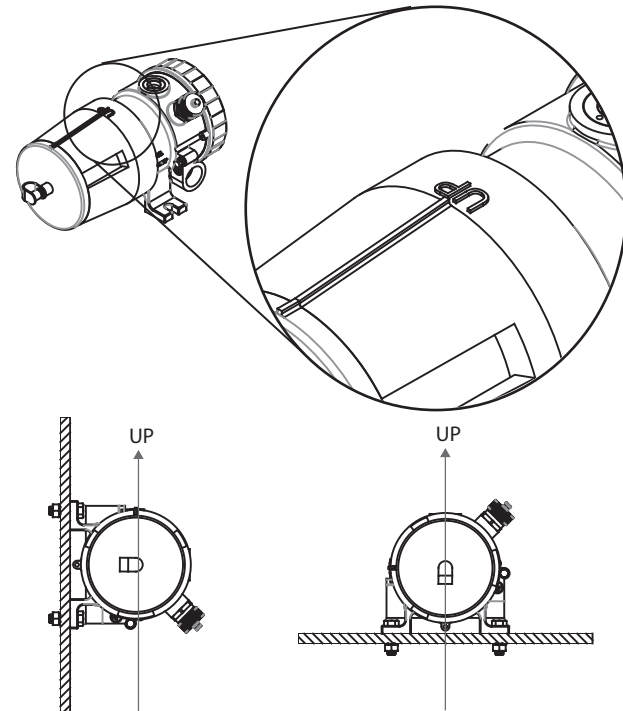


Additional mounting details can be found on pages 11-13 of the SGOES Operating Manual.

PAGE 3

MECHANICAL INSTALLATION (cont'd):

1. The Protective Cover of the SGOES must be oriented so that the "UP" marking is in the 12-o'clock position.



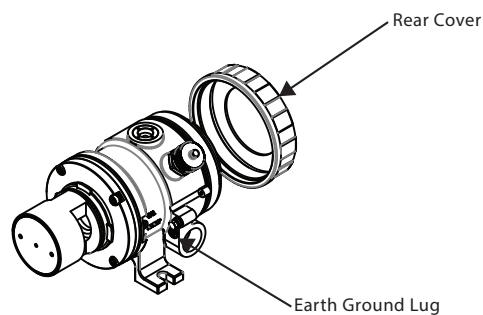
Additional mounting details can be found on pages 11-13 of the SGOES Operating Manual.

PAGE 4

ELECTRICAL INSTALLATION:

Connect wiring to the SGOES terminal blocks. Note: The SGOES Combustible Gas Detector requires a 24VDC power source (18-32VDC voltage range)

1. Access the SGOES wiring terminals by unscrewing and removing the threaded rear cover.



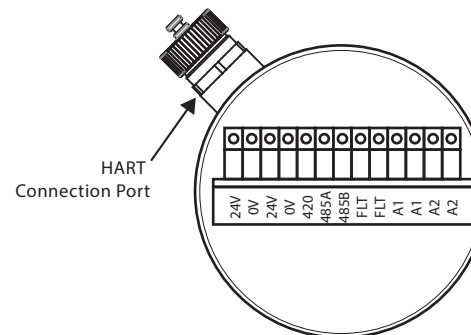
2. Connect wiring to the appropriate terminals on the terminal blocks. Refer to diagram on Page 6 for terminal label and function.
3. When completed, replace the treaded cover on the SGOES.
4. Run the earth ground wire to the external ground stud on the SGOES body

Additional wiring details can be found on pages 14-15 of the SGOES Operating Manual.

PAGE 5

ELECTRICAL INSTALLATION:

SGOES Terminal Block (end view with rear cover removed)



LABEL

24V
0V
24V
0V
420
485A
485B
FLT
FLT
A1
A1
A2
A2

FUNCTION

+ 24V DC (DC power input)
System Ground
+ 24V DC (DC power input)
System Ground (common)
+4-20 mA (current output signal)
RS-485 A (Modbus RTU output signal)
RS-485 B (Modbus RTU output signal)
Fault alarm relay, (pin 1)
Fault alarm relay, (pin 2)
Alarm Relay 1, pin 1
Alarm Relay 1, pin 2
Alarm Relay 2, pin 1
Alarm Relay 2, pin 2

Additional wiring details can be found on pages 14-15 of the SGOES Operating Manual.

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