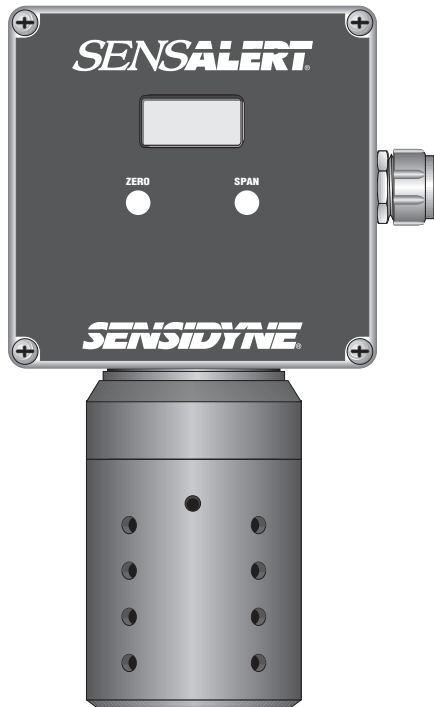


SENSALERT™

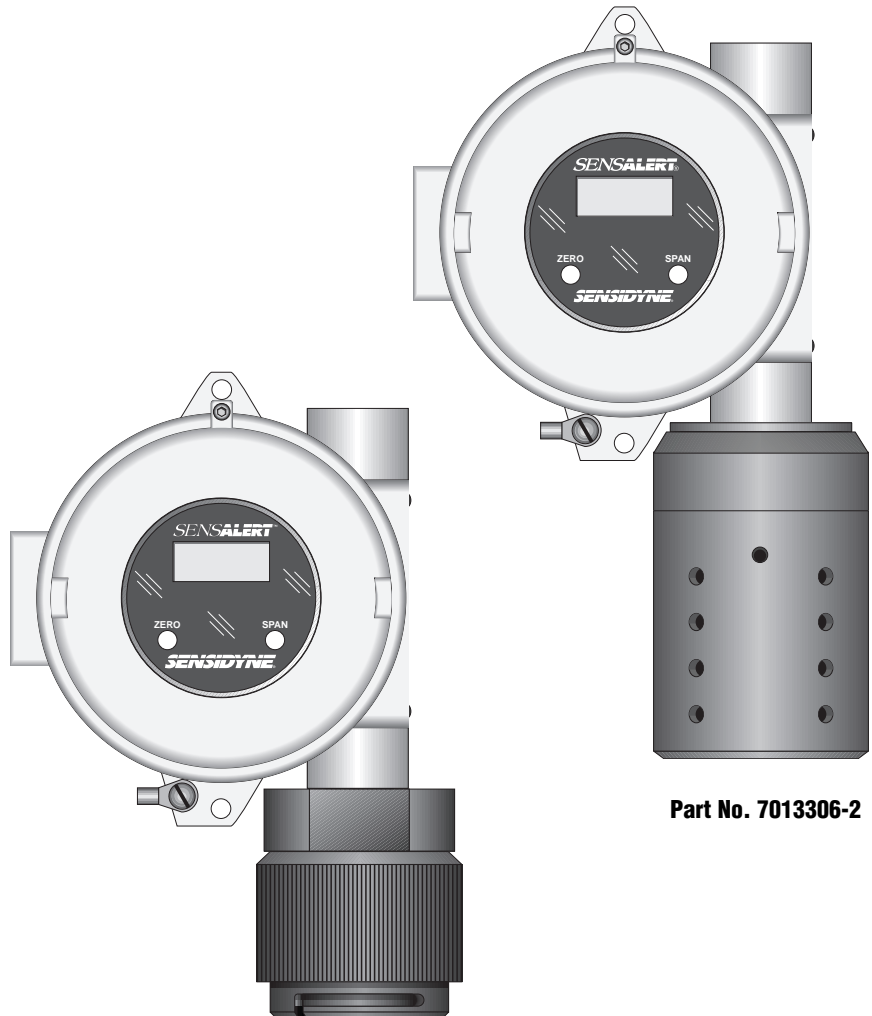
TRANSMITTER

**with Built-In Alarm Relay
& Non-Intrusive Calibration**

(ADDENDUM TO MANUAL NO. 7013182/3M)



Part No. 7013305-2



Part No. 7013306-2

Part No. 7013377

IMPORTANT

Make certain you first read and understand the transmitter manual and this addendum completely (particularly all WARNINGS and precautions) before attempting to operate the unit.

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Revision A • Document No. 7013305M

WIRING THE ALARM RELAY

The alarm relay is a Form C relay with the following specifications: 3 amp @ 250 VAC; 6 amp @ 120 VAC

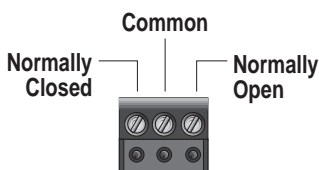
Wire the alarm relay as follows:

- 1) With power removed from the transmitter, loosen the 4 captive screws and remove the cover.

CAUTION

Proper ESD procedures should be taken before touching any components inside the transmitter enclosure.

- 2) Locate the alarm relay terminal strip below the main PCB and wire the alarm relay according to the diagram below.



- 3) *Make certain all connections are secure and the wiring is not twisted or loose.* Replace the transmitter cover. Tighten the 4 captive screws to 10 (± 2) inch lbs to maintain a proper body-to-cover seal.
- 4) Go to the transmitter manual (PN° 7013182/3M) to perform the Start-Up Procedure (Section Three).

NOTE

Alarm relay will be active when gas concentration is above the alarm setting.

SETTING THE ALARM

Set the alarm as follows.

- 1) **Oxygen Sensors:** Briefly touch and remove the magnetic wand to the spot labeled ZERO. This brings up the Alarm Set screen. Go to Step 2.

Toxic & Combustible Gas Sensors: Briefly touch and remove the magnetic wand to the spot labeled ZERO. A zeroing operation will be performed. When “Zero OK” or “Zero Failed” appears, immediately touch and hold the wand to the spot labeled ZERO. This brings up the Alarm Set screen. Go to Step 2.

**ALARM SET
ADJUST**

- 2) After 5 seconds, the Alarm Set Adjust screen is replaced by two screens that alternate at 1 second intervals (below). The value appearing on the second screen is the previously set alarm level. The screens continue alternating for 10 seconds, or until the value is changed.

**ENTER #
UP DOWN**

**7.0 %VOL
UP DOWN**

- 3) To change the alarm setting, touch and hold the magnetic wand to the spot labeled ZERO to increase the value, or to the spot labeled SPAN to decrease the value. The alarm setting automatically increases or decreases as long as you hold the wand to the spot.
- 4) Remove the wand when the desired alarm level is reached. The unit waits 10 seconds before locking in the new value. This gives you time to readjust the level if needed.
- 5) An “Energize Relay” screen then appears for 5 seconds, followed by two alternating screens (see below). The first screen displays a choice for energizing the alarm relay during normal (non-alarm) operation. The second screen shows the current relay setting. Use the magnetic wand to make your choice. If no choice is made, the unit defaults to the setting shown on the second screen after 10 seconds.

**ENERGIZE
NO YES**

**ENERGIZE
YES**

- 6) After all settings are locked in, the unit displays a confirmation screen for 10 seconds before returning to normal operation.

**ALARM SET
OK**

SPECIFICATIONS

General Specifications

Sampling System	Diffusion or Air Aspirated
Controls	Hall Effect Contact, Zero & Span, Alarm Set Point
Display	High Visibility Alpha-Numeric LCD
Temperature Range	-4°F to 104°F (-20°C to 40°C)
Humidity Range	0-95 %RH, non-condensing
Linearity	± 5% of reading
Calibration	One-Person at Transmitter Location

General Purpose Transmitter

Housing	Fiberglass Reinforced Polyester Resin Matting
Mounting Requirement	Wall Mount
Dimensions	5.3" (W) x 8.7" (H) x 3.3" (D) 135 mm (W) x 220 mm (H) x 85 mm (D)
Weight	1.9 lbs (.86 kg)

Heavy Duty Transmitter

Housing	Zinc plated iron conduit
Mounting Requirement	Mount to conduit
Dimensions	6.1" (W) x 7.3" (H) x 4.9" (D) 155 mm (W) x 185 mm (H) x 124 mm (D)
Weight	4.2 lbs (1.9 kg)

Explosion-Proof Transmitter

Housing	Zinc plated iron conduit
Mounting Requirement	Mount to conduit
Explosion-Proof Rating	Classified by Underwriters Laboratories, Inc.® for use in areas rated Class I, Division 1, Groups B, C, D,
Dimensions	6.1" (W) x 9.0" (H) x 4.9" (D) 155 mm (W) x 229 mm (H) x 124 mm (D)
Weight	4.9 lbs (2.2 kg)

Electrical/Electronic Specifications

Alarm Setpoint	One, programmable, non-volatile storage
Alarm Relay	Form C; 3 amp, 250 VAC; 6 amp, 120 VAC
Power Input Requirements	18-30 Vdc
Maximum Power Consumption	4 Watts
Check points	Enable reading of output current as 40-200 mV.
Grounding	Shielded cable is recommended, with shield connected to earth ground at the controller end only or unshielded cable inside grounded conduit.
Transmission Link	4-20 mA current, non-isolated 3-wire
Wire Gauge	14-18 AWG, recommended
Maximum Allowable Line Length	4000 ft (1220 m) for 250 Ω termination resistance and for wire sizes larger than 24 AWG

NOTE: The SensAlert Transmitter with built-in relay is not certified as intrinsically safe.



Certificate No. 970084

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