Quickstart Guide

GDS-48 Remote Photoionization Sensor



Wiring & Installation Instructions for GASMAX II

- 1) Install the GASMAX II gas monitor and GDS-48 as recommended (see GASMAX manual, sections 2.3 and 2.4).
- 2) To avoid excessive voltage at the sensor, prior to connecting the GDS-48 make sure the bridge excitation voltage does not exceed 4.0VDC (see GASMAX Manual, Section 6.2).
- 3) Connect the GASMAX to the GDS-48 as shown in Fig. 2. (R = Reference Bead (+), C = Common, A = Active Bead(-))
- 4) Re-adjust the sensor voltage at the GASMAX until the remote sensor voltage reads 3.5VDC AS MEASURED AT THE SENSOR.
- Calibrate the unit using an appropriate cal mixture to verify proper operation.

Wiring & Installation Instructions for C1 Controller

- 1) Install the C1 *Protector* controller and GDS-48 as recommended (see C1 manual section 3.1.3).
- 2)To avoid excessive voltage at the sensor, prior to connecting the GDS-48 make sure the bridge excitation voltage does not exceed 4.0VDC. (see C1 Manual, Section 3.1.4).
- 3) Connect the C1 to the GDS-48 as shown in Fig. 3. (R = Reference Bead(+), C = Common, A = Active Bead(-))
- 4) Re-adjust the sensor voltage at the C1 until the remote sensor voltage reads 3.5VDC AS MEASURED AT THE SENSOR.
- 5) Calibrate the unit using an appropriate cal mixture to verify proper operation. .

Wiring & Installation Instructions for C2 Controller

- 1) Install the C2 *Protector* controller and GDS-48 as recommended (see C2 manual section 3.1.3).
- 2)To avoid excessive voltage at the sensor, prior to connecting the GDS-48 make sure the bridge excitation voltage does not exceed 4.0VDC. (see C2 Manual, Section 3.1.4).
- 3) Connect the C2 to the remote sensor housing as shown in Fig. 4. (R = Reference Bead(+), C = Common, A = Active Bead(-))
- 4) Re-adjust the sensor voltage at the C2 until the remote sensor voltage is 3.5VDC AS MEASURED AT THE SENSOR.
- Calibrate the unit using an appropriate cal mixture to verify proper operation.

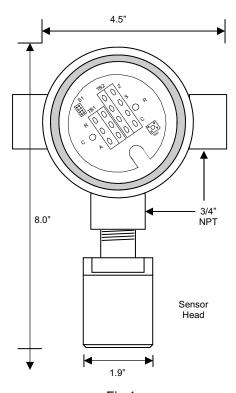


Fig 1.
GDS-48 Remote Sensor Assembly

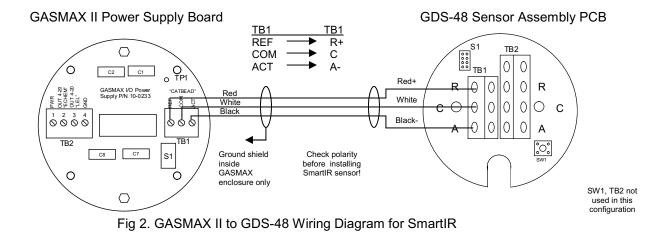
Important:

Observe Polarity!

Do NOT exceed 4.0V across TB1 terminals R(+) & A(-) with PID sensor in place. Voltage in excess of 4.0V may destroy the sensor.

Do NOT install with unused junction box inlet facing UP!
Water WILL leak into the junction box!

AUTHORIZED DISTRIBUTOR - GasDetectorsUSA.com - Houston, Texas USA



C1 8 Channel "CATBEAD" Sensor Option #10-0191 / 10-0192

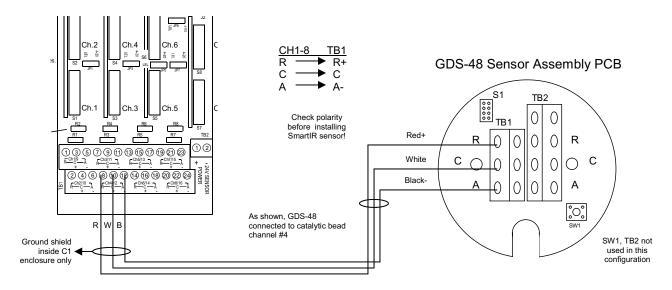


Fig 3. C1 Controller to GDS-48 Wiring Diagram for SmartIR

C2 Catalytic Bead Sensor Input Board #10-0219*

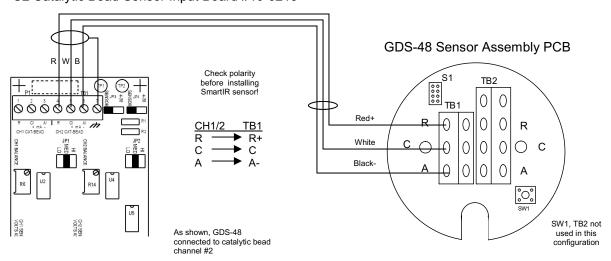


Fig 4. C2 Controller to GDS-48 Wiring Diagram for SmartIR