

Gas Monitors



Refer to Operation Manual section 3 for installation and section 4 for operation and parameters



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For gases **lighter than air**, install at 1 to 3 feet (0.3 to 0.9 meters) from the ceiling: H₂, CH₄, NH₃

For gases with **similar density to air**:

- O₂, CO₂: Install from 3 feet (1 meter) off the floor to one half of the ceiling height
- CO: Install at 3 to 7 feet (1 to 2 meters) from the floor (recommended: 5 feet / 1.5 meters)
- NO₂: Exhaust under vehicle: same as CO
Exhaust over vehicle: Install at half the ceiling height

For gases **heavier than air**, install 1 to 2 feet (0.3 to 0.5 meters) from floor: HFCs, HCFCs, C₃H₈, CL₂, H₂S most organic vapors

50 feet (15 meters) radius for air quality monitoring
30 feet (10 meters) radius for leak detection monitoring
See operations manual for more information.

! **Important.** All wiring must conform to local building codes, regulations and laws. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

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1/2" Conduit
18...20 AWG (24 V AC/DC power)
24 AWG twisted pair, low capacitance, shielded, communications cable

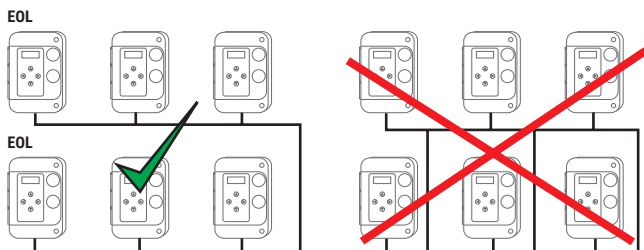
Sensor B
Sensor A

Mounting Holes

Path for Wires

Notes:

- Do not obstruct the monitor
- Do not ground the 24 V AC/DC
- When using multiple monitors:
 - Maintain the same polarity (24 V AC/DC) for all devices
 - CAN bus connection:
 - Maintain the same polarity (CAN bus) for all devices
 - Use 24 AWG twisted pair, low capacitance, shielded, communications cable
 - Monitors must be connected in series
 - Switch end of line (EOL) jumpers (for first and last units)



22Gxx-5A & C-22G-5A

End of line jumper CAN bus
Down = off
Up for first and last unit on chain

End of line jumper BACnet
Down = off
Up for first and last unit on chain

Up position 4...20 mA or Down position 2...10 V

1 Dry contact relay

Relay 1 NO COM NC

Analog Output AN1 G AN2

Transformer 24 V AC/DC
5 VA/W for each unit
Independent circuit 120 VAC

Binary input to limit switch

BACnet MSTP network
Shield (no connect)

CAN bus network High (H)
Low (L)
Shield (on 1st unit only)

AC Supply To magnetic starter coil or control relay coil for ventilation

To other units

22Gxx-5B & C-22G-5B

End of line jumper CAN bus
Down = off
Up for first and last unit on chain

End of line jumper BACnet
Down = off
Up for first and last unit on chain

2 Dry contact relays

Relay 1 NO COM NC
Relay 2 NO COM NC

Transformer 24 V AC/DC
5 VA/W for each unit
Independent circuit 120 VAC

Binary input to limit switch

BACnet MSTP network
Shield (no connect)

CAN bus network High (H)
Low (L)
Shield (on 1st unit only)

AC Supply To magnetic starter coil or control relay coil for ventilation

To other units

22Gxx-5C & C-22G-5C

Network end of line jumper

Transformer 24 V AC/DC
3 VA/W for each unit
Independent circuit 120 VAC

To other units

CAN bus network High (H)
Low (L)
Shield (on 1st unit only)