armstrong MONITORING

# AMC-GCD Series
# Carbon Dioxide Sensor/Transmitter

Armstrong Monitoring's new AMC-GCD series is intended to offer an economical solution for monitoring $CO_2$ or a combination of $CO_2$/Temp/RH for indoor air quality applications.

Built on a proven detection platform, the AMC-GCD series is ideally suited for commercial applications including offices, restaurants, and community centers.



## SPECIFICATIONS

### Detectable Gas(es)

$CO_2$, or Combination $CO_2$/Temperature/Humidity

**Range ($CO_2$):** 0-2000 ppm (adjustable to 0-10 000ppm)
**Range (Temp):** 0-35°C (adjustable to 0-50°C)
**Range (RH)**: 0-100% (Non-condensing)

### User Interface

**Keypad:** 3 Button
**Indicators:** LCD Display (concealed for wall mount)
**Outputs**: Analog Current (4-20 mA) or Voltage (0-10 VDC)

### Electrical

**Supply Voltage:** 24 VDC (± 20%) or 24 VAC (± 10%)
**Wiring**: 3 Wire

### Mechanical

**Enclosure:** ABS (Wall Mount) or Polycarbonate (Duct)
**Dimensions (Wall):** 8.4 cm W x 11.9 cm H x 2.9 cm D
3.3" W x 4.7" H x 1.15" D
**Dimensions (Duct):** 11.65 cm W x 11.25 cm H x 5.37 cm D
4.58" W x 4.43" H x 2.11" D

**Operating Temperature:** 0°C to 50°C
32°F to 122°F

## FEATURES

- User-selectable $CO_2$ range
- Discreet appearance (Wall mount)
- Weather-proof enclosure (Duct-mount)

## COMMON VARIANTS

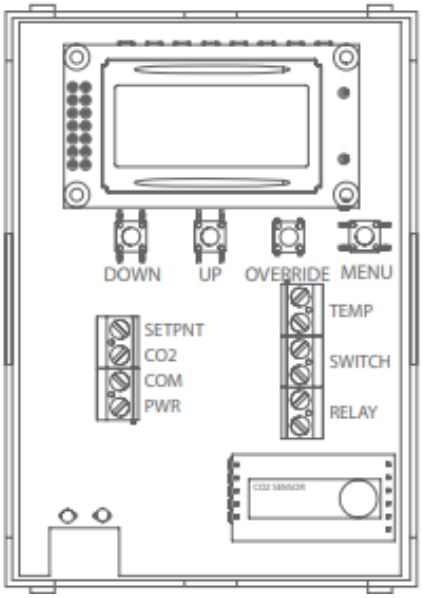
**AMC-GCD-C-X-R**
Infrared CO2 Sensor/Transmitter, Relay, Wall-mount, 24V

**AMC-GCD-C-TH-R**
Infrared CO2 Sensor/Transmitter, Temp, RH, Relay, Wall-mount, 24V

**AMC-GCD-C-TH-R-D**
Infrared CO2 Sensor/Transmitter, Temp, RH, Relay, Duct-mount, 24V

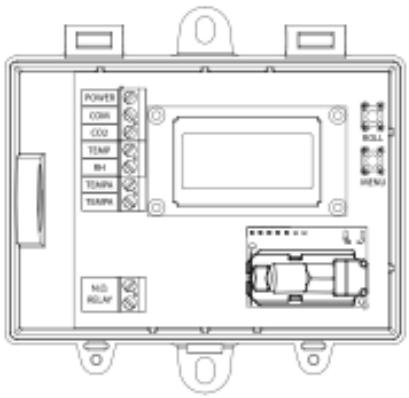


# AMC-GCD Series Wall-Mount Wiring




| TERMINAL | FUNCTION |
|---|---|
| SETPNT | Resistance Output |
| $CO_2$ | Analog Output |
| COM | COMMON |
| PWR | Supply Voltage |
| TEMP | Resistance Output |
| SWITCH | Digital Output |
| RELAY | Digital Output |

# AMC-GCD Series Duct-Mount Wiring



| TERMINAL | FUNCTION |
|---|---|
| Analog Version: | |
| PWR | +24 Vac/dc |
| COM | Common |
| CO2 | Analog Output |
| TEMP | Analog Output |
| RH | Analog Output |
| TEMPA | Resistive Output |
| TEMPA | Resistive Output |
| NO | Digital Output |
| RELAY | Digital Output |

Terminals only present if option is ordered.

Warranty: All Armstrong Monitoring equipment is warranted against defects in materials and workmanship for two years from date of delivery, with the exception of sensors. Please contact factory for specific sensor warranty. During the warranty period, we will repair or replace components that prove, in our opinion, to be defective. We are not liable for auxiliary interfaced equipment, nor consequential damage. All warranty returns require a return authorization number. For more information please refer to our Terms & Conditions.

Note: Due to ongoing product development, the manufacturer reserves the right to change specifications without prior notice. The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data. A variety of factors, not limited to variances in temperature, humidity, pressure, vibrations, EMI/RF may impact on the performance of the equipment. Testing within harsh or unusual environments is recommended. Please contact the factory for assistance with field validation trials.

Published sensor data was obtained using a raw sensor in controlled conditions; actual performance may vary due to site conditions.