

# CARBON MONOXIDE/NITROGEN DIOXIDE GAS TRANSMITTERS

High Accuracy Electrochemical Sensor, Universal Output or BACnet or Modbus® Communication Protocol Options



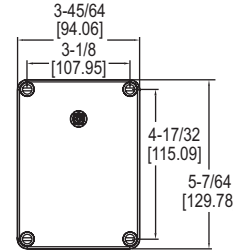
Wall Mount  
With LCD



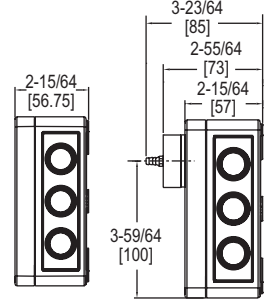
Wall Mount  
Without LCD



Duct Mount



Wall Mount



Duct Mount



The **Series GSTA & GSTC Carbon Monoxide/Nitrogen Dioxide Gas Transmitters** monitor gas concentrations in mechanical rooms, underground parking garages and loading docks. The carbon monoxide transmitter is used to measure the exhaust of gasoline engines, while the nitrogen dioxide transmitter is used for diesel engines. The Series GSTA features field selectable current and voltage outputs while the Series GSTC features BACnet or Modbus® communication protocol, allowing gas sensing solutions that can be used with almost any building management controller.

**FEATURES/BENEFITS**

- Industrial grade replaceable CO or NO<sub>2</sub> sensors
- Field selectable current or voltage output on GSTA models, and field selectable BACnet or Modbus® communication on GSTC models
- Integral LCD display option
- Service display tool for set-up and calibration of models without a LCD

**APPLICATIONS**

- Garage or loading dock ventilation
- Mechanical room monitoring

MODEL CHART			
Example	GSTA	-C	GSTA-C
Series	GSTA GSTC		Field selectable analog outputs Field selectable BACnet or Modbus®
Gas Sensed		C N	CO, carbon monoxide NO <sub>2</sub> , nitrogen dioxide
Options		- D LCD	Wall mount without LCD Duct mount Wall mount with LCD

ACCESSORIES	
Model	Description
GCK-200CO-2000CO2	Calibration gas
A-449	Remote LCD display
A-505	CO replacement sensor
A-506	NO <sub>2</sub> replacement sensor
A-507	Calibration adapter

**SPECIFICATIONS**

**Sensor:** Field replaceable electrochemical, 4 years typical lifespan.  
**Range:** CO: 0 to 500 PPM, NO<sub>2</sub>: 10 PPM.  
**Output Drift:** <5% per year in air.  
**Coverage Area:** 5000 to 7500 sq ft typical.  
**Accuracy:** CO: 2% FS, NO<sub>2</sub>: 3% FS, at the time of calibration.  
**Resolution:** CO: 1 PPM; NO<sub>2</sub>: 0.1 PPM.  
**Temperature Limits:** -4 to 122°F (-20 to 50°C).  
**Storage Temperature:** For best sensor life, 32 to 68°F (0 to 20°C).  
**Humidity Limits:** 15 to 90% RH constant; 0 to 99% RH intermittent.  
**Response Time:** <45 s to 90% CO, <25 s to 90% NO<sub>2</sub>.  
**Span and Zero Adjustment:** Via pushbutton, using optional A-449 display. Zero only via BACnet or MODBUS® communication protocol.  
**Housing:** UV resistant glass filled polycarbonate.  
**Output Signals:** GSTA: Switch selectable 4 to 20 mA (loop powered), 0 to 5 V @ 5 mA, or 0 to 10 V @ 5 mA; Switch selectable 0 to 5 V / 1 to 5 V and 0 to 10 V / 2 to 10 V; Switch selectable normal or reverse output; GSTC: BACnet MS/TP, Modbus® RTU, or Modbus® ASCII (switch selectable) communication protocol.  
**Power Requirements:** GSTA: Current output: 10 to 35 VDC, Voltage output: 15 to 35 VDC or 15 to 29 VAC; GSTC: 10 to 36 VDC or isolated 21.6 to 33 VAC.  
**Electrical Connection:** Removable terminal block, knock outs for conduit fitting.  
**Calibration:** Via pushbuttons using A-449 auxiliary display. Span gas concentration is field selectable.  
**Enclosure Rating:** IP64.  
**Weight:** 1 lb (0.45 kg).  
**Agency Approvals:** CE.

