

# CARBON MONOXIDE/NITROGEN DIOXIDE GAS TRANSMITTERS

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



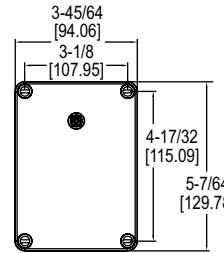
Wall mount with LCD



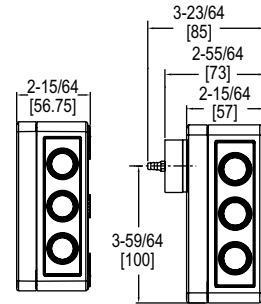
Wall mount without LCD



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.

**BENEFITS/FEATURES**

- Easy field maintenance with industrial grade replaceable sensors
- Reduced inventory of units with field selectable outputs
- Simplified setup for non-LCD units using the set-up display tool

**APPLICATIONS**

- Garage or loading dock ventilation
- Mechanical room monitoring

MODEL CHART				
Model	Gas	Output	Mount	Display
GSTA-C	CO	Universal current/voltage	Wall	None
GSTA-C-D	CO	Universal current/voltage	Duct	None
GSTA-C-LCD	CO	Universal current/voltage	Wall	LCD
GSTA-N	NO <sub>2</sub>	Universal current/voltage	Wall	None
GSTA-N-D	NO <sub>2</sub>	Universal current/voltage	Duct	None
GSTA-N-LCD	NO <sub>2</sub>	Universal current/voltage	Wall	LCD
GSTC-C	CO	BACnet and Modbus®	Wall	None
GSTC-C-D	CO	BACnet and Modbus®	Duct	None
GSTC-C-LCD	CO	BACnet and Modbus®	Wall	LCD
GSTC-N	NO <sub>2</sub>	BACnet and Modbus®	Wall	None
GSTC-N-D	NO <sub>2</sub>	BACnet and Modbus®	Duct	None
GSTC-N-LCD	NO <sub>2</sub>	BACnet and Modbus®	Wall	LCD

**SPECIFICATIONS**

**Sensor:** Field replaceable electrochemical, 2 years typical lifespan.  
**Range:** NO<sub>2</sub>: 10 PPM; GSTA CO: Switch selectable 200 or 500 PPM; GSTC CO: 500 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 onboard push-buttons or using optional A-449 display; GSTC models: Zero only via BACnet or Modbus® communication protocol.  
**Housing:** UV resistant glass filled polycarbonate.  
**Output Signals:** GSTA: Switch selectable 4-20 mA (loop powered), 0-5 V @ 5 mA, or 0-10 V @ 5 mA; Switch selectable 0-5 V/1-5 V and 0-10 V/2-10 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: 10-35 VDC, Voltage output: 15-35 VDC or 15-29 VAC; GSTC: 10-36 VDC or isolated 21.6-33 VAC, 5.7 mA @ 24 VDC.  
**Electrical Connection:** Removable terminal block, knockouts for conduit fitting.  
**Calibration:** Via onboard push-buttons (LCD model only) or using optional A-449 display. Span gas concentration is field selectable.  
**Enclosure Rating:** IP64.  
**Weight:** 1 lb (0.45 kg).  
**Compliance:** CE.

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



A-GSTA-SE



GCK-200CO-2000CO2



A-449



A-505



A-506



A-507