SERIES GSTA & GSTC
CARBON MONOXIDE/NITROGEN DIOXIDE GAS TRANSMITTER

Wall mount with LCD

Wall mount without LCD

Duct mount

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

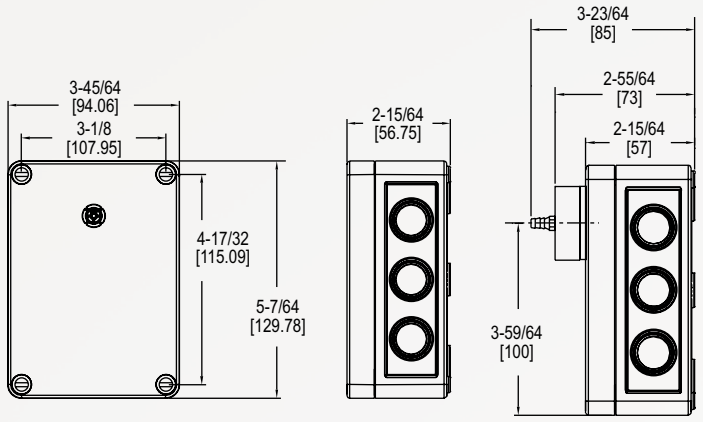
DESCRIPTION

The **Series GSTA and GSTC Carbon Monoxide/Nitrogen Dioxide Transmitter** monitors gas concentration in 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 has field selectable current and voltage output, and the Series GSTC is compatible with either BACnet or Modbus® communication protocol, allowing the transmitters to be used with almost any building management controller. To maximize the accuracy of the transmitters, the sensors can be field-calibrated using the A-449 remote LCD display. When the sensor reaches the end of its life, the display will indicate that the sensor needs to be replaced.

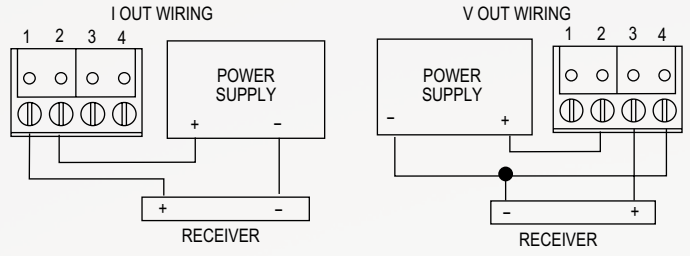
SPECIFICATIONS

Sensor	Field replaceable electrochemical, 2 years typical lifespan.
Range	NO_2: 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_2: 3% FS, at the time of calibration.
Resolution	CO: 1 PPM; NO_2: 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_2.
Span and Zero Adjustments	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.

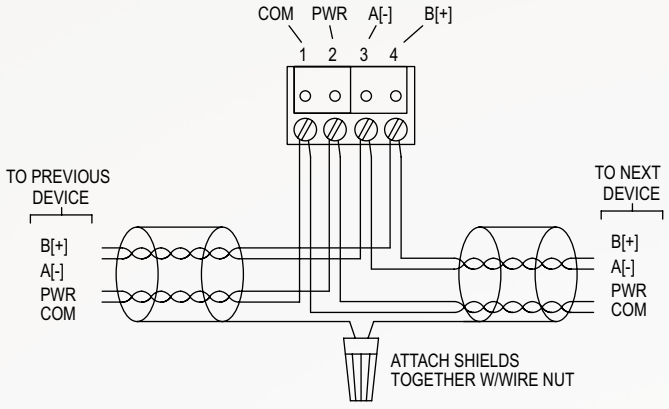
DIMENSIONS



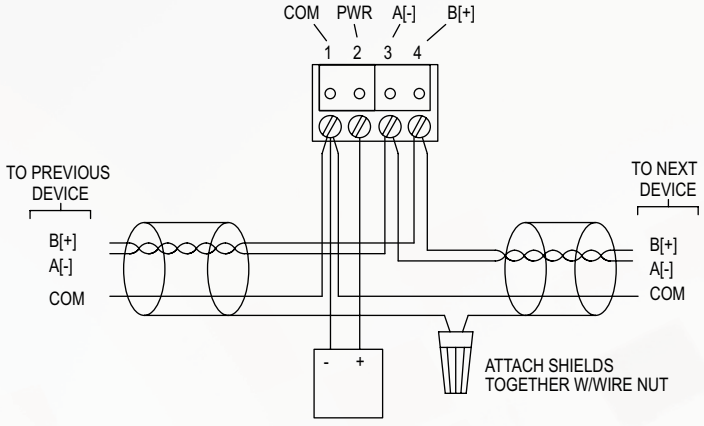
WIRING DIAGRAM



GSTA current output **GSTA voltage output**



GSTC common power supply



GSTC local power supply

HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

GSTA **-N** **-LCD**

SERIES
GSTA: Field selectable analog outputs
GSTC: Field selectable BACnet or Modbus® communication protocol

GAS SENSED
-C: CO, carbon monoxide
-N: NO_2, nitrogen dioxide

OPTIONS
BLANK: Wall mount without options
-D: Duct mount
-LCD: Wall mount with integral LCD

ACCESSORIES

Model	Description
A-449	Remote LCD display
A-505	CO replacement sensor
A-506	NO_2 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

Modbus® is a registered trademark of Schneider Automation, Inc.

ORDER ONLINE TODAY!

dwyer-inst.com/Product/SeriesGSTA
dwyer-inst.com/Product/SeriesGSTC

DWYER INSTRUMENTS, LLC

Printed in U.S.A. 3/22

DS-GSTA-GSTC Rev. 3