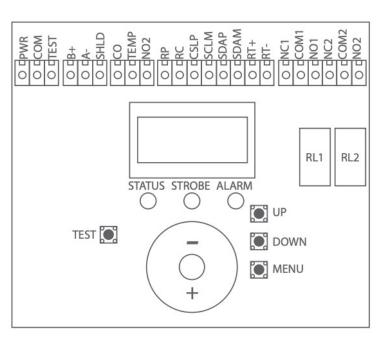


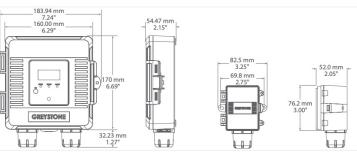
## **CARBON MONOXIDE/NITROGEN DIOXIDE DETECTOR**

#### **DESCRIPTION**

The AZ-GDT Series of gas monitoring sensors monitor levels of carbon monoxide (CO) and/ or nitrogen dioxide (NO2) to provide an early warning of elevated concentrations. The AZ-GDT is available as a standalone CO or NO2, as well as a CO/NO2 dual sensor device. The dual sensor device is available in 2 configurations: CO/NO2 housed one enclosure or as CO with remote NO2 sensor for mounting at a higher location. The AZ-GDT gas sensors are encapsulated in field replaceable sensors pods that are located on the bottom of the enclosure. The pod design provides a greater area of gas sampling then that of devices that utilize a single vent hole. Replacement pods come pre-calibrated and ready for installation. The GDT is available with either Analog, BACnet or Modbus outputs for communication with a building automation system. Standard features include LCD display for configuration and local display as well as status LED's. Optional features include: 1 or 2 adjustable control/alarm relays, adjustable audible (buzzer) & visual (strobe) alarms as well as various temperature sensor. The AZ-GDT is housed in an IP65 polycarbonate enclosure with a hinged and gasketed cover that provides ease of installation and access for set up and configuration.







#### WIRING INFORMATION

TERMINAL	FUNCTION	l
PWR	+24 VDC/AC	
СОМ	COMMON	
TEST	DIGITAL INPUT	
B+	BACnet or Modbus	Only on models with
A-	BACnet or Modbus	- BACnet®/ Modbus Output
SHIELD	BACnet or Modbus	Output
СО	ANALOG OUTPUT	Only on models with
TEMP	ANALOG OUTPUT	- Analog Output or if feature ordered
NO2	ANALOG OUTPUT	] leature ordered
RP	REMOTE NO2 SENSOR	]
RC	REMOTE NO2 SENSOR	
CSLP	REMOTE NO2 SENSOR	Only on models with Remote NO2 Sensor
SCLM	REMOTE NO2 SENSOR	
SDAP	REMOTE NO2 SENSOR	
SDAM	REMOTE NO2 SENSOR	]
RT+	RESISTIVE OUTPUT	Only on models with Resistive Temperature
RT-	RESISTIVE OUTPUT	Sensor option
NC1	RELAY OUTPUT	Only on models with 1
COM1	RELAY OUTPUT	or 2 Adjustable Relays
NO1	RELAY OUTPUT	option
NC2	RELAY OUTPUT	Only on models with
COM1	RELAY OUTPUT	2 Adjustable Relays option
NO2	RELAY OUTPUT	J space

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### CARBON MONOXIDE/NITROGEN DIOXIDE DETECTOR

#### **SPECIFICATIONS**

	GAS TYPE DETECTED	Carbon Monoxide (CO) and/or Nitrogen Dioxide (NO2 )
	SENSOR TYPE	Electrochemical, diffusion sampling
	SENSOR APPROVALS	CO Sensor is a UL approved component for UL 2075/with UL 2034, File No. E240671
	SENSOR ACCURACY	Carbon Monoxide: ±5 ppm or ±5% of reading Nitrogen Dioxide: ±0.2 ppm or ±5% of reading
	MEASUREMENT RANGE	Carbon Monoxide: 0-500 ppm, adjustable 100-500 ppm Nitrogen Dioxide: 0-10 ppm
	RESPONSE TIME	< 30 seconds typical
	WARM-UP TIME	1 minute
	SENSOR COVERAGE AREA	700m2 (7500ft2 ) or 15m (50ft) radius
	SENSOR LIFE SPAN	Carbon Monoxide: 5-7 years in air Nitrogen Dioxide: 2 years
	SENSOR REPRODUCIBILITY (SAME DAY)	±2%
	LONG TERM DRIFT	Carbon Monoxide: <5% per year Nitrogen Dioxide: Zero - <±2 ppm/year Span - <2& signal/month
Ī	POWER SUPPLY	24 Vdc ±20% or 24 Vac ±10% (non-isolated half-wave rectified)
	PROTECTION CIRCUITRY	Reverse voltage and transient protected
	OUTPUT SIGNAL TYPE	4-20 mA (3-wire), 0-5 Vdc/0-10 Vdc, BACnet® or Modbus
	NETWORK INTERFACE	Hardware: 2 wire RS-485 Software: Native BACnet* MS/TP or Modbus RTU Baud Rate: Locally set 9600, 19200, 38400, 57600, 76800, or 115200 MAC Address Range: 0-255 (Factory default is 1) (128 devices max on one daisy chain)
	CURRENT CONSUMPTION	425 mA @ 24 Vac max, 220 mA @ 24 Vdc max (test mode)
	OUTPUT DRIVE @ 24 VDC	Current: 550Ω maximum Voltage: 10,000Ω minimum
	AMBIENT OPERATING RANGE	-20 to 50°C (-4 to 122°F), 15 to 90 %RH non-condensing
	STORAGE TEMPERATURE	-30 to 60°C (-22 to 140°F)
	LCD	Viewable or concealed (with cover closed)  Units: ppm for CO/NO2, "C/"F for optional temperature Size: 35mm Wx 15mm H (1-4" X 65"), alpha-numeric 2-line x 8 characters  Backlight: Enable or disable via menu
	USER INTERFACE	Silence/Test button, Bi-color status LED, Red LED alarm indicator, White high intensity LED strobe (optional)
	OPTIONAL TEMPERATURE SIGNAL	Type: Thermistor or RTD  Accuracy: Thermistors ±0.2°C (±0.36°F) @ 25°C (77°F) Platinum RTD's ±0.3°C (±0.54°F) @ 0°C (32°F) Nickel RTD's ±0.4°C (±0.72°F) @ 0°C (32°F)  Output: 2-wire resistive Type: Analog, BACnet* or Modbus  Sensor Accuracy: ±0.2°C (±0.36°F)  Range: ±0 to 50°C (±1 to 122°F) or 0 to 50°C (32 to 122°F) (field selectable)  Output: Analog • 0-5/0-10 Vdc or 4-20mA (As per output selected)  BACnet*/Modbus - Network Variable
	OPTIONAL RELAY OUTPUTS	Contact Ratings: Form C (NO + NC), 5 Amps @ 140 Vac, 5A @ 30 Vdc Relay Setpoint + Hysteresis: Programmable via menu Relay Time Delay: Programmable via menu
	OPTIONAL ALARM	Audible: Buzzer, 93dB @ 30 cm Visual: High intensity white LED strobe
	MAIN ENCLOSURE	Material/Rating: Grey Polycarbonate, UL94 VO, IP65 (NEMA 4X) with Security Screw installed Dimensions Incl. Sensor Pod: 202.3mm H x 184mm W x 54.3mm D (8" x 7.24" x 2.15") Weight Incl. Sensor Pod: 515 grams (1.14 lbs)
	REMOTE NO2 ENCLOSURE	Material/Rating: Grey Polycarbonate, UL94 VO, IP65 (NEMA 4X) Dimensions Incl. Sensor Pod: 109.5mm H x 83.3mm W x 52mm D (4.31" x 3.28" x 2.05") Weight Incl. Sensor Pod: 109 grams (0.24 lbs)
	WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG), Top or bottom conduit entry 22.73mm (0.875") hole
	APPROVALS	CE
	COUNTRY OF ORIGIN	Canada

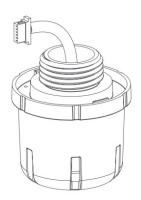


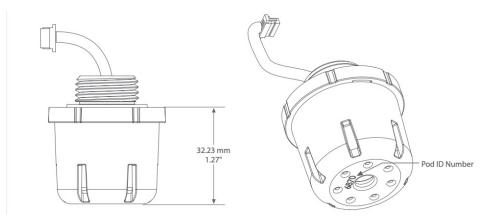


### CARBON MONOXIDE/NITROGEN DIOXIDE DETECTOR

ORDERING		
PRODUCT	GDT	Carbon Monoxide/Nitrogen Dioxide Gas Detector
SENSORS	COX NO2 CNC CNR	Carbon Monoxide Nitrogen Dioxide Carbon Monoxide/Nitrogen Dioxide - Combination Carbon Monoxide/Nitrogen Dioxide - Remote
MOUNTING	SM	Surface Mount - IP65
DISPLAY	C V	Concealed LCD Viewable LCD
OUTPUT	I V B M	4-20 mA 0-5 Vdc/0-10Vdc BACnet® Modbus
RELAY	XX R1 R2	None 1 Adjustable Relay Output 2 Adjustable Relay Outputs
ALARM	X A	None Audible (Buzzer) & Visual Alarm (Strobe)
TEMPERATURE SENSOR	XX TX 02 05 06 07 08 12 13 14 20 24	None Analog, BACnet® or Modbus $100~\Omega~Platinum\\ 1801~\Omega~NTC~Thermistor\\ 3000~\Omega~NTC~Thermistor\\ 10,000~\Omega~Type 3, NTC~Thermistor\\ 2.252K~\Omega~NTC~Thermistor\\ 1000~\Omega~Platinum\\ 1000~\Omega~Nickel\\ 10,000~\Omega~Type 3~Thermistor~with~11,000~shunt~resistor\\ 20,000~\Omega~NTC~Thermistor~thermistor\\ 10,000~\Omega~Type 2, NTC~Thermistor\\ 10,000~\Omega~Type 2, NTC~Thermistor\\ 10,000~\Omega~S5°C, ±1%, B = 3435 ±1% (25/85)$

## **SENSOR PODS**





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### **CARBON MONOXIDE/NITROGEN DIOXIDE DETECTOR**

#### **ORDERING - SENSOR POD REPLACMENET**

SENSOR POD ID NUMBER	DESCRIPTION	ORDERING PART NUMBER
6869	Gas Detector Replacement Pod, Carbon Monoxide	GDPCOXXX
6870	Gas Detector Replacement Pod, Nitrogen Dioxide	GDPNO2XX
2228	Gas Detector Replacement Pod, Carbon Monoxide, 100 $\Omega$ Platinum	GDPCOX02
2229	Gas Detector Replacement Pod, Carbon Monoxide, 1801 $\Omega$ NTC Thermistor	GDPCOX05
2230	Gas Detector Replacement Pod, Carbon Monoxide, 3000 $\Omega$ NTC Thermistor	GDPCOX06
2231	Gas Detector Replacement Pod, Carbon Monoxide, 10,000 $\Omega$ Type 3, NTC Thermistor	GDPCOX07
2232	Gas Detector Replacement Pod, Carbon Monoxide, 2.252K $\Omega$ NTC Thermistor	GDPCOX08
2233	Gas Detector Replacement Pod, Carbon Monoxide, 1000 $\Omega$ Platinum	GDPCOX12
2234	Gas Detector Replacement Pod, Carbon Monoxide, 1000 $\Omega$ Nickel	GDPCOX13
2235	Gas Detector Replacement Pod, Carbon Monoxide, 10,000 $\Omega$ Type 3 Thermistor with 11,000 shunt resistor	GDPCOX14
2236	Gas Detector Replacement Pod, Carbon Monoxide, 20,000 $\Omega$ NTC Thermistor	GDPCOX20
2237	Gas Detector Replacement Pod, Carbon Monoxide, 10,000 $\Omega$ Type 2, NTC Thermistor	GDPCOX24
2238	Gas Detector Replacement Pod, Carbon Monoxide, $10,000 \Omega$ , $25^{\circ}$ C, $\pm 1\%$ , B = 3435 $\pm 1\%$ (25/85)	GDPCOX59
2239	Gas Detector Replacement Pod, Carbon Monoxide, Analog, BACnet/Modbus Temperature Option	GDPCOXTX
6871	Gas Detector Replacement Pod, Nitrogen Dioxide, 100 $\Omega$ Platinum	GDPNO202
6872	Gas Detector Replacement Pod, Nitrogen Dioxide, 1801 $\Omega$ NTC Thermistor	GDPNO205
6875	Gas Detector Replacement Pod, Nitrogen Dioxide, 3000 $\Omega$ NTC Thermistor	GDPNO206
6876	Gas Detector Replacement Pod, Nitrogen Dioxide, 10,000 $\Omega$ Type 3, NTC Thermistor	GDPNO207
6884	Gas Detector Replacement Pod, Nitrogen Dioxide, 2.252K $\Omega$ NTC Thermistor	GDPNO208
6891	Gas Detector Replacement Pod, Nitrogen Dioxide, 1000 $\Omega$ Platinum	GDPNO212
6895	Gas Detector Replacement Pod, Nitrogen Dioxide, 1000 $\Omega$ NickeL	GDPNO213
6896	Gas Detector Replacement Pod, Nitrogen Dioxide, 10,000 $\Omega$ Type 3 Thermistor with 11,000 shunt resistor	GDPNO214
6897	Gas Detector Replacement Pod, Nitrogen Dioxide, 20,000 $\Omega$ NTC Thermistor	GDPNO220
6898	Gas Detector Replacement Pod, Nitrogen Dioxide, 10,000 $\Omega$ Type 2, NTC Thermistor	GDPNO224
6899	Gas Detector Replacement Pod, Nitrogen Dioxide, 10,000 $\Omega$ , 25°C, $\pm 1\%$ , B = 3435 $\pm 1\%$ (25/85)	GDPNO259
6900	Gas Detector Replacement Pod, Nitrogen Dioxide, Analog, BACnet/Modbus Temperature Option	GDPNO2TX

#### **CALIBRATION KIT**



#### **DESCRIPTION**

The AZ-GDT-CALKIT-CNC is a kit to correctly calibrate the Greystone Model GDT CO/NO2 detectors. The GDT-CALKIT-CNC includes:

- Tubing
- Regulator
- Calibration Cap
- Carrying Case
- Sponge (For CO only)

Note: Calibration Gas is not included. To be purchased locally.

Calibration Gas Requirements (103 liter tanks): 250ppm CO in air, 10ppm NO2 in air PRE-CALIBRATED SENSOR REPLACEMENT:

The AZ-GDT sensor features a gas sensor POD that is pre-calibrated. This means that the POD can simply be replaced with a new calibrated POD if desired without having to remove the enclosure and the main processor board. This sensor swap can be completed in seconds. Simply unplug the POD cable connection from the main board in enclosure, remove the POD by unscrewing counter clockwise, install the POD by screwing it in clockwise and reconnect the POD cable to connector on main PCB. There is no need to make any adjustments or apply gas to the transmitter using the sensor swap method.

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