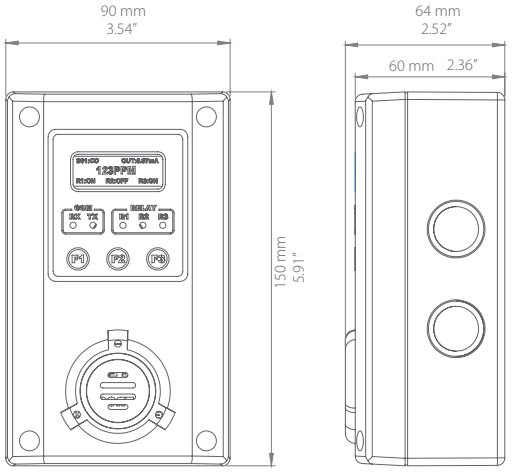
GREYSTONE
ENERGY SYSTEMS INC

CARBON MONOXIDE TOXIC GAS TRANSMITTER





B5C SERIES

PRODUCT DESCRIPTION

The B5C series gas transmitter use electrochemical carbon monoxide sensors. Keys features include:

- **Uses Electrochemical Sensors**
- **Pre-calibrated sensors** available for easy replacement without calibration
- Three on-board **user-programmable relays**
- **Non-proprietary** set-up and calibration procedures
- **Removable terminal** blocks for easy wiring
- **Digital display** of TWA, STEL, concentration and relay status
- **Stand-alone** operation
- **BACnet MS/TP** digital communication protocol
- **Integral buzzer** with three tones
- **NEMA 4X** enclosure with knockouts
- **Sensor housing sealed** from electronics
- **Duct mount** available
- **Splash guard** available
- **Flow through/calibration cap** available
- Operates on **24 VAC/VDC**
- **UL 2075 Approval**

SPECIFICATIONS

POWER SUPPLY	24 Vac (15-24 Vac); 24 Vdc (18-30Vdc)
FUSE	0.750A Polyswitch
SUPPLY CURRENT | POWER CONSUMPTION	Max 300mA | 7.2W
SENSING ELEMENT TECHNOLOGY	Electrochemical
SENSOR LIFE	5 years typical

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SPECIFICATIONS

ACCURACY	± 2.5% of reading
SHELF LIFE	6 months from the date of purchase
RESPONSE TIME	Less than 30 seconds for 90% step change
COVERAGE AREA	Typical 696.7m2 (7500ft2); Radius 14.9m (49')
MOUNTING HEIGHT	1.22 - 1.83m (4 - 6') above floor
FACTORY CALIBRATION RANGE	0 - 250ppm or 0-1000ppm
DISPLAY	LCD graphic display c/w backlight
PANEL CONTROL	Keypad: 3 Capacitive touch sensing keys: F1, F2, F3
PANEL INDICATOR	5 Status LED's RS-485 TX & RS-485 RX (Green) Relay 1, Relay 2, Relay 3 (Red)
WARM UP TIME	1 hour
RELAYS OUTPUTS	3 Relays SPDT (Form C), dry contacts 1.0 A maximum at 30 VDC (resistive load) 0.3 A maximum at 125 VAC (resistive load)
TIME DELAYS	Actuation (Make) or De-Actuation (Break) @ 0 - 999 seconds
RELAYS LIFE EXPECTANCY	Mechanical @ 50 million & Electrical @ 200,000 operations Electrical: 200000 operations minimum @ rated load
DIGITAL OUTPUT	BACnet® MS/TP master /slave protocol
BAUD RATE	9600,19200,38400,76800 Bits/Second (default:38400)
BUZZER	80 db at 10 cm, 2700 Hz Buzzer with 3 programmable tones
OPERATING TEMPERATURE	-20°C to 50°C (-4 to 122°F)
OPERATING HUMIDITY	5% to 95% RH (non-condensing)
ENCLOSURE	Plastic Enclosure ,Polycarbonate Lexan, Fire retardant UL94 V-0 IP 66 & NEMA 4, 4X, 12 & 14
WIRING	12 AWG to 24 AWG for Screw Terminals Blocks (De -Pluggable),
COMMUNICATION CABLE	BELDEN 9841 or equivalent ,120 ohms Input
DIMENSIONS	5.91"x 3.54" x 2.56"(150 mm x 90 mm x 65 mm)
WEIGHT	Less than 0.23kg (0.5lb)
APPROVAL	UL 2075 Standard for Gas & Vapor Detectors/Sensors

Ensure a complete understanding of all applicable Federal, State, Provincial and Local Health and Safety laws and regulations before using these products.

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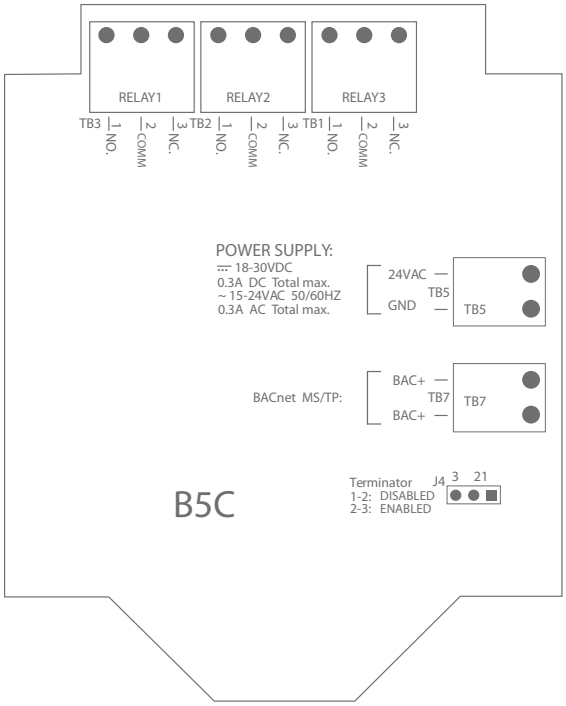
WIRING INFORMATION



TERMINAL		FUNCTION
TB1 TB2 TB3	NC: Normally Close COM: Common NO: Normally Open	3 x Relays Outputs
TB5	24VAC GND	Power IN 24VAC/DC
TB7	BAC+ BAC-	1x BACnet MSTP Port

ORDERING

MODEL #	DESCRIPTION
B5C-CO-250P-0-A-G	BACnet/MSTP Toxic gas transmitter, UL 2075 Approval, Carbon Monoxide, Electrochemical, 0-250PPM, Standard Enclosure
B5C-CO-1000P-0-A-G	BACnet/MSTP Toxic gas transmitter, UL 2075 Approval, Carbon Monoxide, Electrochemical, 0-1000PPM, Standard Enclosure

ACCESSORIES	DESCRIPTION	PART NUMBERS
DUCT MOUNT	Mounting kit for duct installation	85930-040-000
SPLASH GUARD	Unit cover for wet application application	85930-007-000
PUMP-THRU/CAL CAP	Kit for gas calibration (please refer to manual)	85930-006-000

RoHS COMPLIANT

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