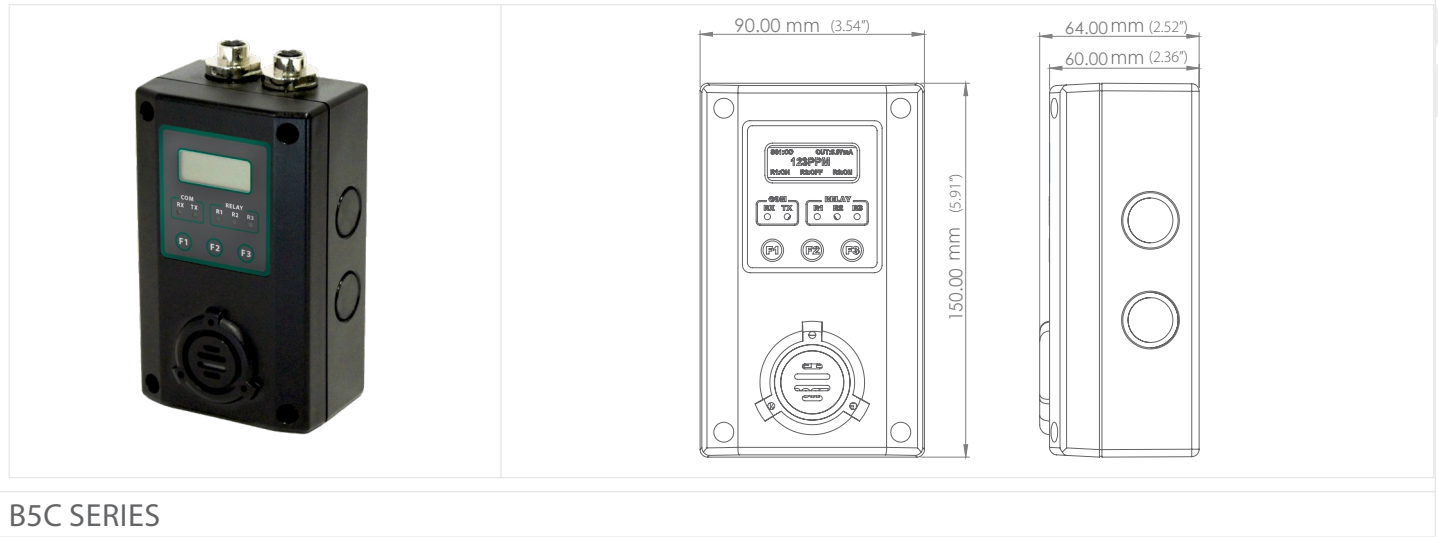


## CARBON MONOXIDE MS/TP BACNET TOXIC GAS TRANSMITTER



B5C SERIES

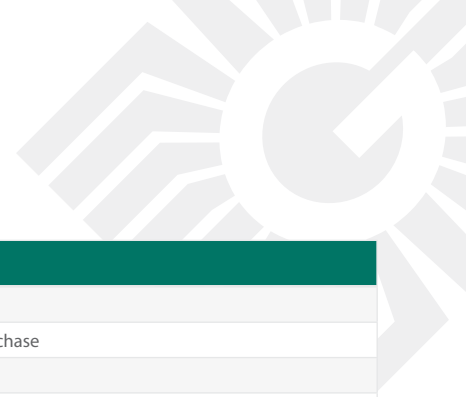
### PRODUCT DESCRIPTION

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**

### SPECIFICATIONS

VOLTAGE	24 VDC Nominal, range 18-30 VDC, 0.3 A DC Total Max 24 VAC Nominal, range 15-24 VAC, 0.3 A AC Total Max Half wave rectified only, AC must not be grounded
FUSE	0.750A Polyswitch
SUPPLY CURRENT   POWER CONSUMPTION	0.3A maximum   8.4 VA
SENSING ELEMENT TECHNOLOGY	Toxic gases: Electrochemical
SENSOR LIFE	5 years typical



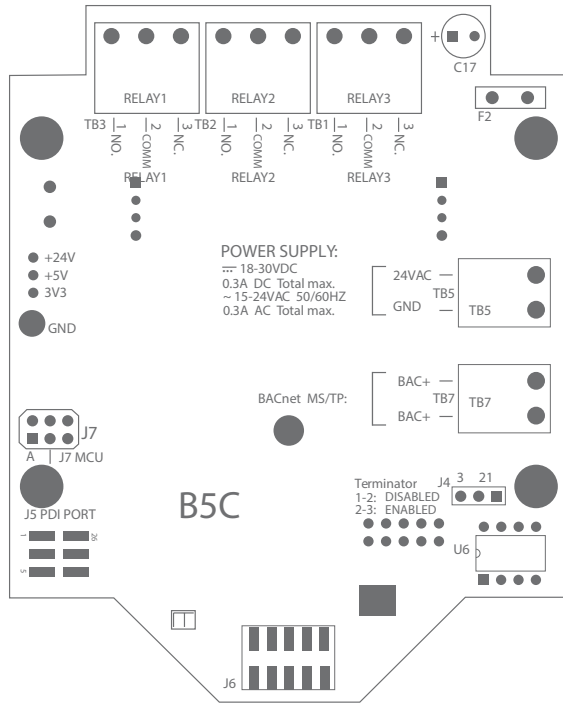
## SPECIFICATIONS

ACCURACY	± 2.5% of reading
SHELF LIFE	Electrochemical (toxic) : 6 months from the date of purchase
RESPONSE TIME	Less than 30 seconds for 90% step change
COVERAGE AREA	Typical 696.7m <sup>2</sup> (7500ft <sup>2</sup> ); 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), 16 AWG or 18 AWG wire for Power supply ( 1km max)
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.*



## 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-O-X-G	BACnet MS/TP toxic combustable gas transmitter, carbon monoxide, 0-250PPM
B5C-CO-1000P-O-X-G	BACnet MS/TP toxic combustable gas transmitter, carbon monoxide, 0-1000PPM

## ACCESSORIES

## DESCRIPTION

## PART NUMBERS

DUCT MOUNT	Mounting kit for duct installation	85930-040-000-G
SPLASH GUARD	Unit cover for wet application application	85930-001-000-G
CALIBRATION KIT	Kit for gas calibration ( please refers to manual)	85930-006-000-G