Vulcain
Division of BW Technologies
1 800 563-2967

Eliminate Maintenance

4-20 mA 2-Wire Gas Transmitters
Carbon Monoxide

ToxyPoint

BENEFITS:

The ToxyPoint 2-wire transmitter provides continuous monitoring for carbon monoxide in ambient air. Engineered with field-proven industrial sensing and instrument technology, the ToxyPoint is maintenance-free.

- No calibration, no sensor replacement, no downtime
- Low initial cost—competitively priced
- Lower electrical and heating bills with highly accurate electrochemical industrial sensor
- Security and reliability. Automatic full function sensor integrity test performed daily and on activation.
- Improved air quality (IAQ) with accurate, reliable detection of carbon monoxide
- Easy, fast installation. The 2-wire monitor fits into a standard, single-outlet electrical box.
- 2-wire, loop-powered. No extra transformer required. Power consumption only 50 mA.
- Unobtrusive design with rugged sintered stainless steel sensor screen.
- Industrial technology now available to the commercial market
- 3 year operational life; 2 year warranty

Ordering Information

TP1-M: 3 year 4-20 mA Gas Transmitter with CO sensor and ToxyPoint mounting plate
Fits into standard, single-outlet (1 gang) electrical box.

Specify special alarm setpoints, if required, at time of order.

**Compatible with any
4-20 mA Control System (DDC, PLC, etc.)**

C ® US

Protecting your health and your environment.

ToxyPoint
Carbon Monoxide
Three Year Disposable
Zero-Maintenance
4-20 mA Gas Transmitter

ToxyPoint is designed to reduce the overall cost of ownership with a lower initial investment, eliminating maintenance costs and minimizing building electrical operating costs. Designed to meet the same high standards as the Vulcain gas detectors, ToxyPoint delivers accurate, reliable protection from carbon monoxide.

ToxyPoint provides an alternative to high-maintenance, solid-state sensors and standard electrochemical monitors, which require constant and often expensive maintenance.

- Carbon monoxide detector (0-500 ppm)
- Wide supply voltage range: 10 to 28 V$_{DC}$, and a linear 4-20 mA output
- Two factory set alarm levels: Low and High (customer specified)
- Two alarm outputs
- No extra transformer required

Special Feature
The full function sensor integrity test is a unique safety advantage of Vulcain equipment. The automatic daily self-test verifies sensor operation and advises the control system if the sensor is defective.

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ISO 9001:2000
CERTIFICATION
Intertek

SPECIFICATIONS

MONITOR:	2-wire, 4-20 mA CO gas transmitter with advanced microcontroller based circuitry
Supply Voltage:	10 to 28 VDC; (24 VDC nominal)
Power Supply:	50 mA
Power Consumption:	Maximum: 24 mA @ 24 VDC Nominal: 4 mA @ 24 VDC
	Alarm Outputs O/P1 and O/P2: 0.25 A (Max) @ 24 VDC supply
EMI/RFI:	Complies with EMC Directive 89/336/EEC

Monitor	Operational Life[N.1]	Measuring Range	Temperature Range	Alarm Levels [N.2] LOW	HIGH
ToxyPoint CO	3 years	0-500 ppm	0 to 40°C 32 to 104°F	25 ppm	200 ppm

SENSOR:	Zero-maintenance electrochemical
Humidity:	15 to 90% non-condensing
Calibration:	Not required
ALARM OUTPUTS:	Two (2) trigger field interface(s) (slave relay, fan, strobe, etc.) rated 250 mA at 24 VDC
Gas Alarms:	Two (2) factory set (customer specified) gas alarms: LOW (O/P1); HIGH (O/P2)
Fault Alarm:	Activates both Low and High alarm outputs
CURRENT OUTPUT:	Signal Output to Control System (DDC, PLC etc):
	Normal Operation: 4-20 mA linear signal
	Self-Test Fail: 2 mA signal
	Sensor Expired: 2 mA signal
	Over Range Gas Alarm: 24 mA signal (maximum)
	Power OFF: 0 mA signal
LED INDICATOR ADVICE:	Power ON: On
	No Power: Off
	Self-Test Fail: Fast flash (1 flash every 0.5 seconds)
	Life Ending Warning: Slow flash (1 flash every 2 seconds)
	(Provides one month warning prior to expiry date)
	Operational Life Ended: Off
SELF-TEST:	On activation (Auto) and Daily (Auto)
Verifies:	Sensor integrity and operation

TRANSMISSION RANGES:	2– Wire Conductor Size:		Distance	
	22 AWG	0.64 mm	6,712 ft.	2,045 m
	20 AWG	0.75 mm	10,953 ft.	3,253 m
	18 AWG	1.0 mm	16,953 ft.	5,167 m

PHYSICAL:	Size: 1.36 x 1.75 x 2.56 in. (3.5 x 4.5 x 6.5 cm)
	Weight: 1.34 oz. (38 g)
Cover:	ToxyPoint aluminum cover mounting plate fits standard single outlet electrical box
Wire Terminations:	Screw type terminals
WARRANTY:	**Two (2) year (3 year operational life)**

[N.1]One year shelf life before activation   [N.2]Customer special alarm settings available at time of order

DUE TO ONGOING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

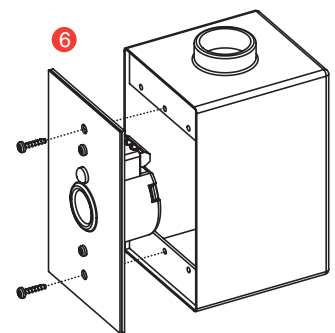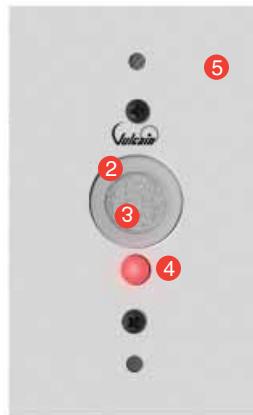**RATINGS AND CERTIFICATIONS:** CSA $_{US}$ Ordinary locations
International Electrical Code: IEC No. 1010
U.S. Standard: ANSI/ISA S82.01

Canadian Standard Electrical Code: C22.2 No. 1010

❶ Zero-maintenance
❷ Electrochemical CO sensor
❸ Sintered screen protects sensor from damage
❹ Red LED status indicator
❺ Mounting plate fits single outlet electrical box
❻ Simple installation

Locally Distributed by: