



# 2-WIRE EXPLOSION PROOF TRANSMITTER

Gas Detection For Life

T2A



## Features

- Electrochemical Sensor
- Loop-Powered (2-Wired), 4-20 mA output
- 3 Character, 7 segment display screen with backlight
- 3 Push-button interface (ADD, MENU, SUB) with corresponding magnetic, non-intrusive switches
- Operating temperature range -40°C to +55°C
- Aluminum device enclosure
- 303 Stainless-steel sensor housing
- 1-Year warranty

## Industry Applications

- Petrochemical plants
- Refineries
- Water & wastewater treatment plants
- Pulp & paper mills
- Manufacturing facilities
- Automotive
- Semiconductor plants
- Chemical plants

The T2A Series toxic gas detector is a versatile assembly that uses an electrochemical sensor to detect a variety of gases. 2-Wire loop-powered to withstand extreme climatic conditions and harsh environments. Magnetic switches allow for non-intrusive calibration while in the field.

Gas Type	Range	T <sub>90</sub>	Hazard Classification
CL2	0 - 10 ppm	< 60 sec.	Class 1, Div 2
CLO2	0 - 1 ppm	< 120 sec.	Class 1, Div 2
CO	0 - 300 ppm	< 30 sec.	Class 1, Div 1
H2S	0 - 100 ppm	< 30 sec.	Class 1, Div 1
H2S 2K	0 - 2000 ppm	< 25 sec.	Class 1, Div 1
HCL	0 - 30 ppm	< 300 sec.	Class 1, Div 2
HCN	0 - 30 ppm	< 70 sec.	Class 1, Div 2
HF	0 - 10 ppm	< 90 sec.	Class 1, Div 2
NH3	0 - 100 ppm	< 90 sec.	Class 1, Div 2
NH3 300	0 - 300 ppm	< 120 sec.	Class 1, Div 2
NH3	0 - 1000 ppm	< 120 sec.	Class 1, Div 2
NO2	0 - 20 ppm	< 25 sec.	Class 1, Div 2
O2	0 - 25 Vol.	< 15 sec.	Class 1, Div 1
PH3	0 - 5 ppm	< 30 sec.	Class 1, Div 2
SO2	0 - 20 ppm	< 35 sec.	Class 1, Div 2

Product Specifications		
Sensor Type	Electrochemical	
Operating Voltage	12V to 35 VDC	
Power Type	Loop-powered (2-Wire)	
Current Draw	35 mA maximum	
Display Screen	3 Character, 7 segment display screen with backlight	
Interface	3 Push-buttons (MENU, ADD and SUB) 3 Magnetic non-intrusive switches for calibration	
Temperature Range	-40°C to +55°C (-40°F to +131°F)	
Wired (Analog) Output	4-20 mA (2-Wire)	
Enclosure Materials	Aluminum device enclosure 303 stainless-steel sensor housing	
Product Mounting	Wall mount (included)	
Approvals	QPS Component Certified Explosion-proof	
Product Dimensions	5.42 in. L x 6.03 in. W x 7.03 in. H (8 in. W x 17 in. Max. dimensions with attachments)	
Total Weight	5.75 lbs.	
Hazardous Location Approvals	Main Enclosure	Certified explosion / flame proof $CQPS_{US}$ Class I, Division 1 & 2, Groups B, C & D Nema 3, 4, 4X, 7 (B, C, D) 9 (E, F, G) Temp.= -20°C to +60°C
	Sensor Housing	Certified explosion / flame proof $CQPS_{US}$ Class I, Division 1 & 2, Groups B, C & D Temp.= -40°C to +60°C Note: Certification only applies to some gases. Toxic gases not certified for Div. 1 locations are suitable for Div. 2 applications but have no third party approval.
Controllers	Compatible with all RKI Beacon controllers, as well as most DCS / PLC systems: Beacon 110, Beacon 200, Beacon 410A and Beacon 800	
Sensor Element Warranty	1-Year warranty for electronics and sensor	

Specifications subject to change without notice.

Made in the USA