

VA201T

Gas Detection Transmitter



The VA201T gas detection transmitter is designed to meet or exceed safety requirements in a variety of commercial and industrial applications. These transmitters can work in an addressable network mode with our VA301C and VA201C controllers through an RS-485 or Modbus link. They can also be used in a stand-alone configuration with an optional 4-20mA or alarm relay outputs.

Key Features and Benefits

- Stand-alone or network configuration
- Full compatibility with VA301C or VA201C controllers
- Optional 4-20 mA and one relay output
- Optional audible alarm and LCD display
- One-person remote calibration
- 10-step LED display
- Proven sensing technology
- Easy installation and operation
- Field-proven protection
- Innovative and compact case design
- Robust RS-485 Modbus communication



Ordering Information

Gas Transmitters

VA201TQ1-xxx*	Q1-type sensor
VA201TQ2-xxx*	Q2-type sensor
VA420TQ1-xxx*	4-20 mA Two wire transmitter

*Notes: indicate gas type to be detected in suffix "-xxx".

Packages:

NET	Network
NETCR	Network, 4-20mA, Alarm Relay
NET-D	Network Display
NETCR-D	Network, 4-20mA, Alarm Relay, Display
C	4-20mA
CAR	4-20mA, Audible Alarm, Alarm Relay
C-D	4-20mA, Display
CAR-D	4-20mA, Audible Alarm, Alarm Relay, Display

Options:

RST	Remote sensor
TM/Guard	Metal guard
DT	Duct type
ECLAB	Splash guard

Toxics

CO

NO₂H₂Cl₂H₂S

ETO

HCN

HCl

SO₂

NO

O₂

Refrigerants

R11

R12

R22

R134a

Combustibles

MODBUS

ISO 9001:2000



Intertek

VA201T

Gas Detection Transmitter

Power Requirement:

17-27 Vac, 24-38 Vdc, 250 mA

Sensing Technology

Q1-type Sensor: Toxic: Electrochemical
 Combustibles: Catalytic
 Oxygen: Diffusion fuel cell

Q2-type Sensor: Refrigerants:
 Solid-state
 Carbon Monoxide:
 Electrochemical

Display:

10-step LED or LCD

Visual Indicators:

Failure Indication: Yellow LED
 (Available in network configuration only)
 Normal Operation: Green LED

Relay Output Rating:

5A, 30Vdc or 250 Vac (resistive load)

Audible Alarm:

65 dBA at 3 ft. / 1 m

Optional Outputs:

RS-485 Modbus, 4-20mA, Alarm relay

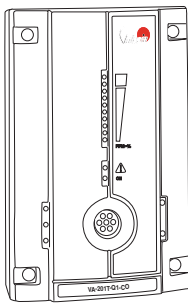
Ratings and Certifications:

Certified to: C22.2 No 205
 Conforms to: Standard 1244

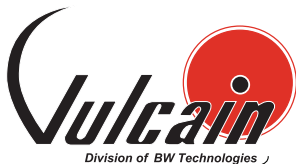
General Specifications

Size: 8.4 x 5.3 x 2.25 in.
 21.3 x 13.4 x 5.7 cm
 Weight: 0.88 lb/0.4kg

Gases Detected	Detection Range		Accuracy		Operating Humidity Range		Operating Temperature Range				
	Q1	Q2	Q1	Q2	Q1	Q2	Q1	Q2			
Carbon Monoxide (CO)	0-50 ppm 0-100 ppm 0-250 ppm (std) 0-500 ppm	0-250 ppm	±3%	±5%	0 - 90% RH, non-condensing	10 - 95% RH, non-condensing	-4 to 122°F (-20 to +50°C)	-4 to 122°F (-20 to +50°C)			
Nitrogen Dioxide (NO ₂)	0-10 ppm	—		—	15 - 90% RH, continuous	—	-22 to 122°F (-30 to +50°C)	—			
Hydrogen (H ₂)	0-2.5% LEL	0-100% LEL		±5%	15 - 90% RH, non-condensing	20 - 100% RH, non-condensing	-4 to 122°F (-20 to +50°C)	14 to 104°F (-10 to +40°C)			
Chlorine (Cl ₂)	0-15 ppm	—		—				—			
Sulfur Dioxide (SO ₂)	0-1 ppm	—		—				—			
Ethylene Oxide (ETO)	0-20 ppm	—		—				—			
Hydrogen Cyanide (HCN)	0-50 ppm	—		—				—			
Hydrogen Chloride (HCl)	0-25 ppm	—		—				—			
Hydrogen Sulfide (H ₂ S)	0-50 ppm	—		—				—	-40 to 122°F (-40 to +50°C)	—	
Nitric Oxide (NO)	0-10 ppm	—		—				—	—	-22 to 122°F (-30 to +50°C)	—
Oxygen (O ₂)	0-1 ppm	—		—				5 - 95% RH, continuous	—	-4 to 131°F (-20 to +55°C)	—
Combustibles	0-100% LEL	0-100% LEL		±5%				—	0 - 95% RH, non-condensing	—	14 to 104°F (-10 to +40°C)
Refrigerants	—	0-2000 ppm (N/A for R123)		—	±10%	—	40 - 100% RH, non-condensing	—	32 to 122°F (0 to +50°C)		



Locally distributed by:



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