



Explosion Proof Toxic and Combustible Gas Transmitters

VA301D₂ Series



Combining state of the art technology with a rugged explosion-proof housing, the VA301D₂ analyzes a wide variety of both toxic and combustible gases to high levels of precision. Engineered to rigorous specifications, the unit is specifically designed to provide enhanced performance and reliability in the most adverse industrial conditions.

Smart sensing technology

Inherent smart sensing technology permits the VA301D₂'s transmitter module to instantly recognize and adjust to a range of targeted gases. In addition, depending on the unit's configuration, an internal clock measures the elapsed time that the sensor has been in use. Other routines allow for the rating of the time remaining before calibration and the performing of built-in zero adjustment—features that virtually eliminate downtime.

- Explosion-proof enclosure (class.1, Div.1)
- Integrated LCD
- Secured Non-intrusive calibration
- Fail safe contact closures
- Dual alarm levels
- 4-20mA analog output
- **NEW:** Unclassified duct type mounting kit available
- Modbus communication
- Remote sensing configuration available
- Calibration port makes for easy maintenance

Ordering Information

VA301D₂xxx* Gas transmitter
*gas to be detected

Output Packages (Select one):

D2NET	Network
D2NETC	Network, 4-20mA
D2NETCO	Network, 4-20mA, 2 Alarm Relays
D2NETCF	Network, 4-20mA, 1 Alarm + 1 Fault Relay
D2C	4-20mA
D2CO	4-20mA, 2 Alarm Relays
D2CF	4-20mA, 1 Alarm + 1 Fault Relay

Options:

D2SG	Splash Guard
D2RS-PC	Remote Sensing with Calibration Port
D2DT	Duct Type Mounting Kit (Not suitable for Hazardous locations)

Protecting your health and your environment.

VA301D₂

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Durable Design

The VA301D₂ is housed in a rugged, explosion-proof enclosure specially designed for operation in hazardous locations. An integrated sensor guard protects the sensor from dust or dirt, keeping reading as accurate as possible.

Superior Versatility

To optimize environmental control, the VA301D₂ is fully compatible and can be used in conjunction with the Vulcain VA201C & VA301C controller



For further information:

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VN1092-01-01-00-8.25x11-20041112-5730-10



VA301D₂ SPECIFICATIONS

SENSING TECHNOLOGIES:	Electrochemical (toxic) Catalytic combustion or Infrared (combustibles) Diffusion fuel cell (oxygen) Alpha numeric LCD display
DISPLAY:	
VISUAL INDICATORS:	
Normal Operation:	Green LED
ALARMS:	Red LED
COMM:	Green LED
FAULT:	Yellow LED
RELAY OUTPUT RATING:	5A, 30 Vdc or 250 VAc (resistive load)
OUTPUTS:	RS-485, *Modbus, 4-20 mA, *2 SPDT fail safe relays

GENERAL SPECIFICATIONS

POWER REQUIREMENTS:	17-27 VAC, 18-38 VDC, 380 mA @ 24 VDC
SIZE:	7.5 in (H) x 6.25 in (W) x 4.5 in (D) 19 cm x 16 cm x 11.5 cm
WEIGHT:	4.6 lbs / 2.1 Kg
ENCLOSURE:	Certified to UL and CSA standards Class 1 Div 1 Groups B, C, D

*See options on previous page.

Gases Detected	Detection Range	Accuracy	Operating Humidity Range	Operating Temperature Range
CO	0-250 ppm	3 %	0% - 90% RH, non-condensing	-20°C to +50°C (-4°F to +122°F)
NO ₂	0-10 ppm	3 %	15% - 90% RH, non-condensing	-20°C to +50°C (-4°F to +122°F)
NO	0-50 ppm	3 %	15% - 90% RH, non-condensing	-20°C to +50°C (-4°F to +122°F)
CL ₂	0-15 ppm	3 %	10% - 95% RH, non-condensing	-20°C to +40°C (-4°F to +104°F)
Combustibles - Catalytic	0-100% LEL	3 %	0% - 80% RH, non-condensing	-40°C to +55°C (-40°F to +131°F)
Combustibles - Infrared	0-100% LEL	3 %	0% - 99% RH, non-condensing	-20°C to +50°C (-4°F to +122°F)
H ₂ S	0-50 ppm	3 %	0% - 90% RH, non-condensing	-40°C to +50°C (-40°F to +122°F)
O ₂	0-25%	3 %	5% - 95% RH, continuous	-20°C to +50°C (-4°F to +122°F)
SO ₂	0-10 ppm	3 %	15% - 90% RH, non-condensing	-20°C to +50°C (-4°F to +122°F)
ETO	0-10 ppm	3 %	15% - 90% RH, non-condensing	-20°C to +50°C (-4°F to +122°F)
HCN	0-50 ppm	3 %	15% - 90% RH, non-condensing	-20°C to +50°C (-4°F to +122°F)
HCL	0-25 ppm	3 %	15% - 90% RH, non-condensing	-20°C to +40°C (-4°F to +104°F)
NEW Gases Detected	Detection Range	Accuracy	Operating Humidity Range	Operating Temperature Range
F ₂	0-1 ppm	3 %	10% - 95% RH, non-condensing	-10°C to +40°C (14°F to +104°F)
O ₃	0-1 ppm	3 %	15% - 90% RH, non-condensing	-20°C to +40°C (-4°F to +104°F)
HF	0-10 ppm	3 %	15% - 90% RH, non-condensing	-20°C to +35°C (-4°F to +95°F)
SiH ₄ (Silane)	0-5 ppm	3 %	20% - 95% RH, non-condensing	-20°C to +40°C (-4°F to +104°F)

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



VA301D₂

- ① Smart sensor
- ② Menu key
- ③ Visual indicators
- ④ LCD display



VA301C

- ① Programming keypad
- ② Visual indicators
- ③ LCD display

Locally Distributed by: