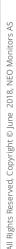
LaserGas[™] iQ²Vulcan



LaserGas*iQ²



NEO Monitors' LaserGasTM iQ²Vulcan is the first in-situ single-flange solution to measure up to four gases (O_2 , CO, CH₄, H₂O) as well as the process temperature in a single unit. Based on the well-proven and trusted tunable diode laser absorption spectroscopy (TDLAS) technology, the solution combines cutting-edge design and ground-breaking functionality. It is a complete combustion solution eliminating the need for multiple units. Advanced TDLAS technology enables unmatched reliability and durability. Installation costs of this all-in-one solution are significantly reduced since only one flange is needed. In addition, operational and maintenance costs are kept at a minimum.

Features	Applications	Customer benefits
 No interference from background gases Factory calibrated No zero drift Transceiver configuration Automatic gain In-situ measurement Span check/validation option for O₂, CO, and CH₄ 	 Combustion analysis Package boilers Process heaters Electrostatic precipitators VCM waste gas recovery Reformer gas 	 Up to 5 measuring components O₂, CO, CH₄, H₂O and temperature Can handle a typical combustion process up to 1562 °F/850°C Reduced installation cost Low maintenance costs Easy to install transceiver, one unit ensures easy alignment Double path length increases absorption signal for low concentration Well-proven technology

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Technical Data

Specifications Max. process gas temperature:	850 °C	Ratings Power supply: Power consumptions:	24 VDC (18 - 30 VDC) max 30W	Installation and opera Flange dimension:	ation DN80/PN 10-40 DN100/PN 10-40
Max. process gas pressure:	1.5 BarA	4 - 20 mA: Relay output:	500 Ohm max isolated 1 A at 30 V DC/AC		ANSI 3" #150/#300 ANSI 4" #150/#300
Optical path length:	1 m	Safety			
Response time:	5 sec	Laser class:	Class 1M according to IEC 60825-1, eye safe	Instrument purge:	Nitrogen
Environmental conditi	0.000	CE:	Certified	Probe purge:	Nitrogen
Operating temperatures		EMC:	Conformant with directive 2014/30/EU		
Storage temperature:	-40 °C to +70 °C			Calibration check:	Every 12 months
Protection classification	IP66	Approvals IECEx/ATEX zone 1:	II 2 G Ex pxb IIC T5 Gb	Dimensions / weight	
Input/output Analog output(6):	4 - 20 mA current loop		II 2 D Ex pxb IIIC T100 °C Db	iQ ² :	461 mm x 399 mm x 174 mm 15 kg
Digital output:	Ethernet (TCP/IP)	CSA:	Class I Div. 2		13 16
Relay output (6):	High gas, warning and fault (normally closed)	Connection box:		Probe:	1495,8 mm x Ø 63,5 mm 32 kg
Analog input (2):	4 - 20 mA Process temperature and pressure reading	ATEX:	ll 2 GD Ex e llC T5 Gb -40 °C ≤ Ta ≤ 65 °C		

Component	Max	LDL
СО	10000 ppm	3 ppm
02	25 %	0.05 %
CH4 add-on	5 %	0.01 %
Process temperature	850 °C	
Process pressure	1.5 BarA	

NOTE: Detection limits are specified as the 95 % confidence interval for 1 m optical path and gas temperature / pressure = 25 °C / 1 BarA. Measured in N_2 .

NEO Monitors reserves the right to change specifications without prior notice.

Your local distributor:

