LaserGas™ iQ²

NEO Monitors LaserGas™ iQ² analyzer is the first to measure four gases (O_2, CO, CH_4, H_2O) and temperature in one unit, which eliminates the need for multiple units for combustion analysis. The cutting-edge design and ground-breaking functionality, ensures that the instrument delivers unmatched reliability and durability.
By providing an optional single flange solution, installation cost can be significantly reduced. Customers may replace existing analyzers where explosion risks or high maintenance issues are a huge concern.

Features

- No interference from background gases
- Factory calibrated
- No zero drift
- Transceiver configuration
- Multiple configurations
- Designed for 3 configurations – cross stack, one-flange with probe and open path
- Automatic gain
- In-situ measurement
- Integrated span check option (Application depended)

Applications

- Combustion analysis
- FCC units
- Package boilers
- Process heaters
- Electrostatic precipitators
- VCM waste gas recovery
- Reformer gas
- Incineration

Customer benefits

- Up to 5 measuring components O_2, CO, CH_4, H_2O and temperature
- Can handle a typical combustion process up to 2192 °F/1200°C
- Reduced installation cost
- Low maintenance cost
- Easy to install transceiver, one unit ensures easy alignment
- Double path length increases absorption signal for low concentration
- Transceiver can be mounted on coldest side of stack in extreme hot environments
- Well proven technology
- The design has flexibility to measure new/other gases and combinations of them

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Technical Data

Spesifications

Optical path length:

Response time: 5 seconds

Environmental conditions

Operating temperatures: -20 °C - +55 °C

Input/output

Analog output: 4 - 20 mA current loop

Digital output: Ethernet (TCP/IP)

Relay output (4): High gas, warning and fault (normally closed)

Analog input (2): 4 - 20 mA Process temperature and pressure reading

Ratings

Power supply: 24 VDC (18 - 30 VDC)

Power consumptions: max 30W

4 - 20 mA: 500 Ohm max isolated

Relay output: 1 A at 30 V DC/AC

Installation and operation

Flange dimension: DN 80

Instrument purge: Application dependent N_2 or air

Probe purge: Nitrogen

Calibration: Every 12 months

Approvals PENDING

Dimensions / weight

Transceiver: 461 x 399 x 174
15 kg

Your local distributor:

Ankersmid Process

neoMONITORS

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