

Chemiluminescent Detector (CLD) for NOx measurement in engine emissions, combustion studies, process plant, CEMS and medical gas production.

# Flexible

- Very high vacuum with dry vac pump or atmospheric pressure versions
- 'Hot' and 'Cold' versions

# Easy to Use

- $\bigcirc$  Totally automatic operation
- Wireless tablet
- Software suite for use over ethernet or RS232

# Accurate

 Dual detectors for continuous NO2, NO and NOx readings

**NEW** 

- $\bigcirc$  Trace PPM measurements standard
- $\bigcirc$  High range % available



Non-tablet Version available for system integrators



# 54 QUASAR

# **SPECIFICATIONS**

#### MEASUREMENT TECHNIQUE

Chemiluminescence Detector (CLD)

**MEASURING UNITS** PPM or mg/Cu.Mtr. user selectable

## MEASURING RANGES

*Range A: 0-1000ppm.* User settable to e.g. 0-1ppm, 0-5ppm, 0-10ppm, 0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm. *Range B: 0-10000ppm.* User settable to e.g. 0-10ppm, 0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-5000ppm. 0-10,000ppm. Resolution: 0.1ppm *Range C. 0-100,000 ppm.* User settable, with resolution of 1ppm

**RESPONSE TIME** T90 <2.0s

**REPEATABILITY** <1% FSD

## QUENCHING EFFECT

CO2 and H2O Quenching. 2% of reading per 15% CO2 and 2% reading per 2% H2O

LINEARITY +/- 0.5% FSD or 2% of point EN14181 - dc rel : <2% R2 : >0.99

**ZERO DRIFT** <0.5% FSD/24hrs

**TEMPERATURE EFFECT ON ZERO** <0.15% per °C

**TEMPERATURE EFFECT ON SPAN** <0.3% per °C

**ZERO NOISE** <0.1ppm

**SPAN NOISE** <+/-0.1%FSD for vacuum version <+/-0.3%FSD for non-vacuum version

**DETECTION LIMIT** 0.05mgC/m3

BYPASS FLOW SENSITIVITY

Less than 0.5% from 1 to 3 L/min

#### SAMPLE FILTER

Removable 0.4 micron PTFE

#### DISPLAY

Blank or Detachable Screen

**SAMPLE CONDITION** Max temp190°C Pressure -0.3bar to +0.5bar

OPERATING CONDITIONS

5-40°C ambient temperature

## AIR SUPPLY

Air for Ozone (O3) flow 140ml/min Pressure 0-1bar max dewpoint 12°C Stable O2 concentration >20%

## CONVERTER EFFICIENCY

NOx >95% NH<sub>3</sub> >85%

#### OUTPUTS

0-10 Vdc RS232 Ethernet TCP/IP Optional 4-20 mA

#### POWER REQUIREMENTS

220-240 V AC 110-120 V AC 24 V DC 600 W max.

#### **REMOTE CONTROL**

AK protocol via RS232 port, Ethernet Comes with S4i remote software operating system.

#### SIZE AND WEIGHT

19" (w) x 133.5 (h) x 530 mm (d) Apx. 30Kg



## NOXGEN NOx Converter tester

Irrespective of manufacturer, it is extremely important to check the efficiency of the NOx converter. It is recommended that this should be undertaken every 6 months of use. The Signal NOXGEN converter tester is the ideal tool for this because it allows operators to simply use the standard NO calibration gas and convert it to NO2 with the NOXGEN.

The NO2 is then converted back to NO in the NOx converter with an efficiency of at least 98%.

#### Authorised Representative:



www.signal-group.com

Standards House, Doman Road, Camberley, Surrey GU15 3DF United Kingdom

Signal Group Ltd

QMS<sup>e</sup> ISO 9001 : 2015 R E G I S T E R E D Cert No. 317012019

Tel: +44 (0)1276 682841 Email: sales@signal-group.com