NEW

S4 QUASAR

Heated vacuum chemiluminescence NOx analyser

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

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

Accurate

- Dual detectors for continuous NO_2, NO and NOx readings
- Trace PPM measurements standard
- High range % available

Non-tablet Version available for system integrators

SIGNAL GROUP

S4 QUASAR

SPECIFICATIONS

MEASUREMENT TECHNIQUE
Chemiluminescence Detector (CLD)

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

MEASURING RANGES
Range A: 0-1 to 0-1000ppm.
User selectable
Range B: 0-10 to 0-10,000ppm.
User selectable
Range C: 0-100 to 0-100,000 ppm.
User selectable

RESPONSE TIME
<2.0s

REPEATABILITY
<1% FSD

QUENCHING EFFECT
<2% of reading per 15% CO_2
<2% reading per 2% H_2O

LINEARITY
± 0.5% FSD or 2% of reading

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 (O_3) flow 140ml/min
Pressure 0-1bar max dewpoint 12°C
Stable O_2 concentration >20%

CONVERTER EFFICIENCY
NOx >95%
NH_3 >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 NO_2 with the NOXGEN.

The NO_2 is then converted back to NO in the NOx converter with an efficiency of at least 98%.

Authorised Representative:

SIGNAL GROUP
www.signal-group.com

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

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