

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 NO2, NO and NOx readings
- Trace PPM measurements standard
- High range % available



Non-tablet Version
available for system
integrators

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.

Resolution: 0.01ppm

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 temp 190°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

NO_x >95%

NH₃ >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 NO_x Converter tester

Irrespective of manufacturer, it is extremely important to check the efficiency of the NO_x 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 NO_x converter with an efficiency of at least 98%.

Authorised Representative: