

S4 SOLAR XPLORE

Portable heated FID VOC analyser



Flame Ionisation Detector (FID) analysers for the discontinuous measurement of the mass concentration of gaseous and vaporous organic substances in stationary source emissions.

Flexible

- Single or dual detectors
- Integrated zero air generator
- Software suite for use over ethernet

Easy to Use

- Rugged and portable
- Wireless tablet interface
- Typical warm up 30 minutes

Accurate

- Precision monobloc heated FID
- Simultaneous monitoring of THC, NMHC & Methane
- Fast response time



Rack mounted
FID for continuous
monitoring

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SPECIFICATIONS

MEASUREMENT TECHNIQUE

Flame Ionisation Detector

MEASURING UNITS

PPM or mg 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: 0.01 ppm

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: 0.1 ppm

Range C: 0-100,000 ppm.

User settable, with resolution
of 1ppm

RESPONSE TIME

THC <1.5 secs
CH4 and NMHC <2.5 secs

REPEATABILITY

<1% FSD

OXYGEN EFFECT

<2% of reading from
0% to 21% O₂ (H₂He)

LINEARITY

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

ZERO STABILITY

Noise:

EURO VI

THC <0.05%FSD
CH4 <0.05%FSD

CFR40 part 1065

THC <2.5%FSD

CH4 <1%FSD

Drift:

less than ± 0.2 ppm or $\pm 2\%$
of Range per 24 hours,
whichever greater

TEMPERATURE EFFECT ON ZERO

<0.15% per °C

TEMPERATURE EFFECT ON SPAN

<0.3% per °C

SAMPLE INLET PRESSURE

With internal sample pump:

-0.6 to +0.4bar

Without internal sample pump:

+0.2 to +0.5bar

SPAN STABILITY

Noise: < ± 0.1 ppm or $\pm 1\%$ of
range, whichever greater
Drift: < ± 0.2 ppm or $\pm 2\%$ of
range
per 1 hour, whichever greater

ACCURACY

<0.2% FSD
Precision
EURO VI - <1%

DETECTION LIMIT

0.05mgC/m³

BYPASS FLOW SENSITIVITY

Less than 2% from
1 to 3 L/min

SAMPLE FILTER

Removable 0.4 micron PTFE
7um non removable stainless
steel filter for CFID

DISPLAY

Blank or Detachable Screen

SAMPLE CONDITION

0-200°C (Heated version)

0-80°C non-condensing for
CFID

FUEL CONSUMPTION

Single detector:

35ml/min H₂ or 180ml/min
H₂He

Dual detectors:

70ml/min H₂ or 360ml/min
H₂He

AIR SUPPLY

Single detector:

<1.1L/min

Dual detector:

<1.6L/min

OPERATING CONDITIONS

5-40°C ambient temperature

OUTPUTS

0-10 Vdc

RS232

Ethernet

TCP/IP

Optional 4-20 mA

POWER REQUIREMENTS

100 to 250Vac

Optional 24VDC

600W max

REMOTE CONTROL

AK protocol

Ethernet

Comes with S4i remote
software operating system.

SIZE AND WEIGHT

19" (w) x 133.5 (h) x 530 mm
(d)

Apx. 22Kg

NEW - Every S4 gas analyser can now be supplied with a rugged, wireless tablet which connects wirelessly to the analyser via an inbuilt 802.11 Wi-Fi that can connect up to 50 metres away. This provides the users with the ability to view live data in a different location, and even manage data logging, alarms and calibrations.



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