

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: 0.01ppm

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

THC <1.5 secs
CH4 and NMHC <2.5 secs

REPEATABILITY

<1% FSD

OXYGEN EFFECT

<2% of reading from
0% to 21% WITH C3H8

LINEARITY

± 0.5% FSD OR 2% of reading

DRIFT

< ± 0.2ppm or ± 2% range
whichever greater

NOISE

<0.05% FSD, THC & CH4
(EURO VII)

TEMPERATURE EFFECT ON ZERO

<0.15% per oC

TEMPERATURE EFFECT ON SPAN

<0.3% per oC

SAMPLE INLET PRESSURE

With internal sample pump:

-0.6 to +0.4bar

Without internal sample pump:

+0.2 to +0.5bar

ACCURACY

<0.2% FSD

PRECISION

<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

0-200oC (Heated version)
0-80oC non-condensing for
CFID

OPERATING CONDITIONS

5-40oC ambient temperature

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

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

IP RATING

IP55

COMPLIANCE

- EN 12619
- EN 13526
- EN15276-2
- EN15276-3
- BImSchV, 13. BImSchV & 17. BImSchV
- USEPA Method 25
- USEPA Method 25A
- USEPA CFR40 part 86 & 1065
- USEPA Performance Specification 8A
- ISO 25140
- ISO 8178
- NIER Notification No. 2023-70
- ASTM D7675-22

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ISO
9001 : 2015
REGISTERED

Cert No. 317012019