S4 SOLAR XPLORE

Portable heated FID VOC analyser

INSTRUMENTATION EXCELLENCE AWARDS

HIGHLY COMMENDED 2024

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

SIGNAL GROUP

S4 SOLAR Xplore

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 C_3H_8

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 °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

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
0-200°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
252 (w) x 264 (h) x 494 (d) mm
14kg - 16kg

IP RATING
IP55

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.

Authorised Representative: