

# 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: 0.1ppm

**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% 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  $\pm 0.2$ 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:** <  $\pm 0.1$ ppm or  $\pm 1\%$  of range, whichever greater  
**Drift:** <  $\pm 0.2$ 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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