

# 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

# 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: 0.01 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% WITH C<sub>3</sub>H<sub>8</sub>

### LINEARITY

± 0.5% FSD OR 2% of reading

### DRIFT

< ± 0.2ppm or ± 2% range  
whichever greater

### NOISE

<0.05% FSD, THC & CH<sub>4</sub>  
(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/m<sup>3</sup>

### 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 H<sub>2</sub> or 180ml/min  
H<sub>2</sub>He

**Dual detectors:**

70ml/min H<sub>2</sub> or 360ml/min  
H<sub>2</sub>He

### 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

### 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:



www.signal-group.com

Signal Group Ltd

Standards House, Doman Road, Camberley, Surrey GU15 3DF  
United Kingdom

Tel: +44 (0)1276 682841 Email: sales@signal-group.com



ISO  
9001 : 2015  
REGISTERED

Cert No. 317012019