S4 SOLAR

Heated FID VOC analyser

Flame Ionisation Detector (FID) analysers for gas purity, air separation plant, engine emissions, combustion studies and process plant VOC abatement monitoring.

Flexible

- Fixed and portable versions
- 'Hot' and 'Cold' versions
- EN14181 QAL1 (MCERTS) applied for

Easy to Use

- Totally automatic operation
- Wireless tablet
- Software suite for use over ethernet or RS232

Accurate

- Precision monobloc FID
- Trace PPM measurements standard
- High range % available

Non-screen version available for system integrators

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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% O_2 (H2He)

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

DRIFT
+/-0.2ppm or 2% range per week, whichever greater

NOISE
+/-0.1ppm or 1% range, 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

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 via RS232 port, Ethernet
Comes with S4i remote software operating system.

SIZE AND WEIGHT
19" (w) x 133.5 (h) x 530 mm (d)
Apx. 30Kg

Model 3010 MINIFID Portable heated FID VOC analyser

Customers with non-continuous or multi-site applications may also consider a portable analyser.

Authorised Representative:

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