

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

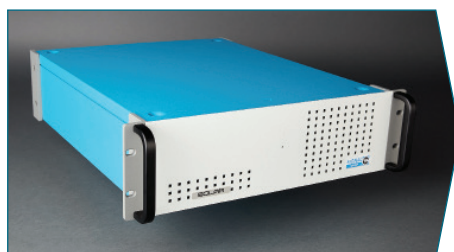
- Fixed and portable versions
- 'Hot' and 'Cold' versions
- EN14181 QAL1 (MCERTS) applied for

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



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

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

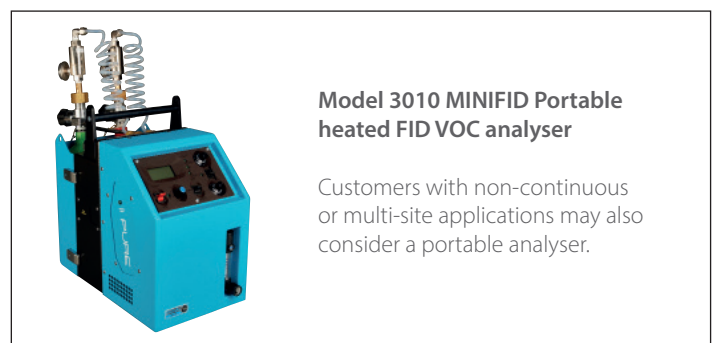
AK protocol via RS232 port, Ethernet

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: