S4 SOLAR

Heated FID VOC analyser

THC	17.92 mg/m³	10000	Sleep
CH4	9.78 mg/m³	10000	Sleep
NMHC	8.14 mg/m³	10000	Sleep

HFID-DNMHC 20315

SOLAR

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

SIGNAL GROUP

S4 SOLAR

SPECIFICATIONS

MEASUREMENT TECHNIQUE
Flame Ionisation Detector

MEASURING UNITS
PPM or mg user selectable

MEASURING RANGES
User-selectable ranges:
Range A: 0-1000ppm.
Resolution: 0.01ppm.
Range B: 0-10,000ppm.
Resolution: 0.1ppm.
Range C: 0-100,000 ppm.
Resolution: 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 oC

TEMPERATURE EFFECT ON SPAN
<0.3% per oC

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
0-200oC (Heated version)
0-80oC 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
5-40oC 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:

QMS
**ISO
9001 : 2015**
R E G I S T E R E D
Cert No. 317012019