

SOLAR

FID – Total Hydrocarbon Analyzer



Flame ionization is the reference method detector for measuring total hydrocarbons (THC, VOC, TOC). This detection method is continuous with a fast response time making it very effective for alarm status monitoring applications and other real-time reporting.

ISATEC SOLAR is the best solution for monitoring non-condensing ambient air temperature samples.

ISATEC SOLAR is suitable for a wide range of applications from monitoring solvent process to filtration system research.

The analyzer has a user-friendly interface with status pages for simple diagnostics. With automated calibration range selection and remote capability, it is ideal for CEMs and other low maintenance applications.

ISATEC SOLAR is supplied complete with remote interface software to make operating, calibrating and fault finding easy and fast.

KEY FEATURES:

- Fast response
- Touch screen and internet connectivity
- On-board logging
- Flexible outputs and alarms
- RS 232 and Ethernet connection
- Up to 35 programmable alarms

Can be customized for special applications.

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TECHNICAL SPECIFICATIONS

Measurement technique	Flame ionisation Detector - FID
Available measuring range	0 – 1000 ppm FSD 0 – 10,000 ppm FSD 0 – 40,000 ppm FSD 0 – 100,000 FSD
Response time	THC <1.5 s to T90
Repeatability	<1% FSD
Oxygen effect	0.3% from 0-10% O2 in sample
Linearity	+/- 0.5% FSD or 2% of point
Zero drift	< 2%
Temperature effect on zero	< 0.15% per °C
Temperature effect on span	< 0.3% per °C
Accuracy	< 0.2% FSD
Detection limit	0.05mgC/m ³
Bypass flow sensitivity	Less than 2% from 1 to 3 L/min
Sample filter	Removable 0.4-micron PTFE
Display	7" colour display
Sample condition	Non-condensing ambient temp.
Inlet Pressure	-0.5 barg – 1 barg
Fuel consumption	Hydrogen 45ml/min Hydrogen/Helium 180ml/min
Air supply	1.7L/min minimum
Operating conditions	5-40°C ambient temperature
Outputs	0 – 10 Vdc
Power requirements	100-240 Vac 50/60 Hz or 24 Vdc
Remote control	AK protocol via RS232 port, Ethernet
Size	19" (w) x 133.5 (h) x 530 mm (d)
Weight	30 Kg