

Protable 3010FID

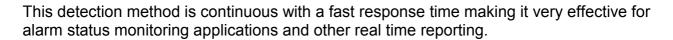
3010 MINIFID PURE Portable Heated FID THC Analyser

- . Compact, rugged Easy to use
- . Carbon scrubber for clean air Integral heated sample line



Heated flame ionisation detector is the reference method technique for measuring total hydrocarbons (THC, VOC, TOC). The advantages of this method

are that it can be used for hot, wet samples. Maintaining an elevated temperature prevents the dropout of heavy hydrocarbons along the sample line.



The 3010 is suitable for a wide range of applications from incinerators to high concentration solvent users.

With good carbon correlation for aliphatics, alcohols, esters, ketones, and aromatics it provides a reliable determination of total hydrocarbon levels.

Operation

We recommend the use of hydrogen/helium mixture as fuel for applications where oxygen levels are unpredictable to minimise the effects of oxygen synergism. The Model 3010 is also available with hydrogen fuel option for ambient applications where oxygen levels are stable.

The Model 3010 has a user friendly interface with status pages for simple diagnostics. It represents a cost effective solution for short term monitoring requirements.

With fuel shut off if flame fails and sample pump inhibitor until oven and heated line are up to temperature, this represents an intuitive, easy to use analyser suitable for even the most inexperienced operators.



The 3010 MINIFID is a small, self contained, and fully portable analyser. It is equally convenient for use on the laboratory bench or as a portable on-site measurement tool. This three-gas FID features the same detection system as the Series IV Solar range of FIDs. Comes with a 5m heated sample line and built-in controller as standard. Manual operation without microprocessor control. Bottle rack may be detached for use with standard, full sized gas cylinders.

Key Benefits:

- Fast speed of Response
- Fully heated to 191°C
- Built-in catalytic air purifier for internal burner and zero air generation
- Built-in cataloger
- 0-10ppm to 10,000 ppm (4 ranges)
- High Range option 0-10%
- 110Vac 50/60 Hz OR 220Vac 50/60Hz
- Built in Heated Line Controller (5m or 10m line option)
- Optional Pelican carry case
- 2 year warranty

Applications:

- VOC
- Solvent incineration and absorption
- Coating applications, paint spray booths etc.
- Gas Turbines

NB. For low particularly low range applications (below 10ppm) we would recommend the Signal Model 3030PM as a possible alternative.

Specifications:

Measurement technique Heated flame ionisation detection (HFID)

Measuring range 0-10ppm up to 0-1% methane 10% option available

Response time 2 seconds to T90

Sample flow 0.4 to 3L/min

Bypass flow sensitivity Less than 2% from 1 to 3L/min

Accuracy and repeatability Better than 1% range or 0.2ppm, whichever is greater

Ambient temperature effects zero: less than 0.15ppm per DegC

span: less than 0.1% of range per DegC

Noise Less than 0.1ppm or 0.1% of range, whichever is greater

Linearity Better than 2% of point or 0.5% FSD

Zero drift Less than

Sample filter replaceable PTFE 0.4 micron

Concentration outputs 0-10Vdc and 4-20mA analogue

Range output Volt free relay contacts

Power 110Vac, 300VA plus

400VA (5m heated line), 800VA (10m)

Dimensions 210mm x 300mm x 240mm

Weight Approximately 12Kg (including bottles)

Operating conditions Ambient temperature 5-35 DegC

Fuel consumption H2/He 180ml/min

H2 only 60ml/min

Options 5m or 10m heated lines available Hydrogen fuel for ambient

applications

Analyser is supplied with heated line, 1 litre fuel and 1 litre

span gas.

Options

Signal SIGEMS software is available for logging and reporting.