

## VOC 1000

### METHANE, NON METHANE & TOTAL HYDROCARBON ANALYSER



**ECOTECH VOC 1000 is designed to measure total, methane and non-methane hydrocarbon gases providing accurate and reliable measurement data.**

VOC 1000 analyser provides unparalleled flexibility and offers continuous, fully automated gas analysis over a broad range of concentrations.

The analyser is based on a Flame Ionisation Detector (FID) with electronic control that delivers a small portion of the sample gas to the detector flame. During the combustion process, organic or hydrocarbon-based gases in the sample are ionised, then they are detected by the instrument and reported as a concentration.



### BENEFITS

- Hydrocarbon detection from sub-ppm to 1000 ppm (methane)
- Programmable automatic calibration at user-defined intervals or manual calibration
- Electronic control of fuel, air and sample
- Electronic back-pressure regulator with sample bypass system ensures fast response
- Programmable analog output ranges
- Automatic FID ignition, with automatic shut-off of sample, fuel and combustion air
- Graphical display and easy to use menu system
- Internal single or multipoint modules, with or without sample pump for pre-filtered (< 0.1 microns), non-condensing samples
- Multilevel concentration and fault alarms that result in an audible and visually displayed alarm. Alarms may also be mapped to relays to control external equipment
- Supports hydrogen 35 cc/min (blend 100 cc/min), air 175 cc/min. Hydrocarbon content must be < 1 ppm.

### SPECIFICATIONS

<b>Detector:</b>	Flame Ionisation Detector (FID)
<b>Oxidiser:</b>	Non-methane gases
<b>Range:</b>	0 - 200 ppm (0 - 1000 ppm optional)
<b>Repeatability:</b>	+/- 1 % full scale
<b>Drift:</b>	+/- 1 % of full scale (24 hours)
<b>Response:</b>	T90 < 30 seconds
<b>Support gases:</b>	Hydrogen 35 cc/min Air 175 cc/min
<b>Operating temperature:</b>	0 - 40 °C
<b>Operating humidity:</b>	0 - 95 % non condensing
<b>Power:</b>	90 - 240 VAC 50/60 Hz, 3A
<b>Display:</b>	8.6 x 11.4 cm graphical display
<b>Relay outputs:</b>	5 programmable form A relays rated to 3A @ 230 VAC
<b>Analog outputs:</b>	1 programmable 0 - 20 or 4 - 20 mA isolated output (optional 3 analog output board)
<b>Digital outputs:</b>	RS232, Ethernet
<b>Dimensions:</b>	48.3 x 36.2 x 13.3 cm
<b>Weight:</b>	9 kg
<b>Connections:</b>	1/4" tube fitting connectors