J.U.M. ENGINEERING

PORTABLE, HEATED FID TOTAL HYDROCARBON ANALYZER **OVF-3000**

The OVF-3000 fully complies with EN 12619, EN 13526 (EU), 2. BImSchV. 13. BImSchV and 17. BImSchV (Germany), and EPA Method 25A and Method 503 (USA)

The J.U.M. High Temperature Heated FID OVF-3000 is a competitively priced, over the shoulder portable and compact heated FID (HFID) total hydrocarbon analyzer for high accuracy, sensitivity and stability.

The Model OVF-3000 uses our long time proven VentDown° hydrogen Flame Ionization Detector (FID). Including the detector and sample filter- and pump, all parts which come in contact with sample are housed in a 190°C heated oven. This prevents the loss of high molecular weight hydrocarbons to ensure true results, fast response, fast set back to zero and very reliable performance in the analysis of low trace level, to high level total carbon concentrations of contaminants in stack emissions, vehicle emissions, process gases, air and other gases.

The disposable heated sample filter is easily accessible in the front panel. No special tools are required for a quick, safe and easy sample filter change. All sample wetted components are integrated into the heated chamber.

The OVF-3000 uses a new high tech, low pressure solid fuel storage system which is kept inside of the hinged cover. The user can safely and easily fill the fuel cartridge himself at low pressures from any hydrogen bottle.

Low cost of ownership. Very low fuel gas consumption. The combustion air supply for the FID-detector is already built in.

No external burner air generator or external high pressure cylinder for synthetic burner air is needed. No more dangerous refilling of high pressure cylinder for hydrogen is needed.

Features

- ⇨ All components which come in contact with sample are fully heated and micro processor controlled at 190°C
- ⇨ Designed for continuous operation 24hours, 7 days per week
- ⇨ Easy to change sample filter in the front panel. No special tools required for filter change
- ⇨ Internal low pressure hydrogen fuel storage system holds enough fuel gas for over 40 hours of continuous operation
- ⇨ Hydrogen safety; maximum hydrogen filling pressure is only 430 PSI (30 bar)
- ⇨ Long life H.V. spark ignition. No more change of glow igniters
- ⇨ Built in burner air generator, no external air source needed
- ⇨ Built-in sample pressure and sample pumps
- ⇨ Automatic flame out alarm with optional fuel shut off
- ⇨ Fast response within 1 second
- ⇨ Low fuel consumption
- ⇨ Very selective to hydrocarbons
- ⇨ Microprocessor controlled PID-type temperature controller
- ⇨ Excellent accessibility for easy maintenance and service

Applications

- ⇨ Stack gas hydrocarbon emissions monitoring
- ⇨ Raw exhaust vehicle emissions analysis
- ⇨ Catalytic converter testing
- ⇨ Measuring engine combustion efficiency
- ⇨ Hydrocarbon contamination monitoring in air and other gases
- ⇨ Carbon adsorption regeneration control
- ⇨ Indoor air quality monitoring
- ⇨ Fence line monitoring
- ⇨ Detection of trace hydrocarbons in purity gases used in the semi conductor industry
- ⇨ LEL monitor of solvent laden air

Product Brochure,
FID Model OVF-3000, english