



# PCF ELETTRONICA S.R.L.

## HOT FID BASED VOC PORTABLE ANALYSER mod.2005

**For both continuous source and ambient air monitoring  
Procedure according to CEE UNI EN 13526 – UNI EN 12619 regulations**

- Easy to use and maintain
- In built Zero air supply
- In built screen data logger with 5.5" colour display
- Data management through USB port
- Data storage on compact flash memory



PCF's mod. 2005 is a very versatile, compact and light portable hot FID VOC monitor.

It represents one of the best solution both in emission and ambient air controls. The hot FID analysis is continuous with a very fast response time (from 0 to 98% of full scale in 1 sec.).

All analytical devices are lodged in a rugged aluminium case with a strong strap to make transportation easy.

### FID DETECTOR

The detector is a carbon atom counter. Sample is introduced into a micro flame lighted by hydrogen and air, where the electrical charges generated by the oxidation of Cx to CO are proportional to the hydrocarbon content in the sample. Actual carbon concentration is computed out of a calibration with a traceable reference gas mixture. The electrical charges are collected by two polarised electrodes and converted by an electrical circuit into normalised electronic signal.



### DESCRIPTION

PCF's Mod. 2005 VOC analyser has been designed, developed and built according to the UNI EN 13526 - UNI EN 12619 European directives for the detection of Volatile Organic Carbon at emissions. The sample is extracted through a variable length probe carrying a ceramic filter on the top, an heat traced PTFE tube at 150-180°C and an heated head sucking pump. A farther SS sintered heated filter is placed in front of the sample capillary. The sample is continuously fed into the FID detector, therefore the response is fast and continuously active. The whole sample way from up the sampling filter down to the FID detector is kept at controlled high temperature. Detector electronic signal output is amplified and normalised to 0-1 Vdc standard signal. An in built data logger with colour display represents the friendly interface with the operator.

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