



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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TECHNICAL SPECIFICATIONS:

- Measuring ranges : 0-20/200/2,000 ppm and/or mg/Nm³
or
: 0-50/500/5,000 ppm and/or mg/Nm³
(other ranges optional)
- Accuracy : $\pm 1\%$ of full scale
- Precision : $\pm 1\%$
- Linearity : better than 1%
- Background noise : 0.2 mg/Nm³
- Lower Detectable Limit (LDL) : 0.4 mg/Nm³
- Zero drift (24 hours) : $\pm 1\%$ of full scale
- Span drift (24 hours) : $\pm 1\%$ of full scale
- Response time : 1 second
- Lag time : 2 seconds (3 m heat traced sample line)
- Sample flow rate : 800 ml/min
- Operating temperature range : 0-40°C
- Digital display : 320x200 pixel 5.5" colour TFT-LCD display
- Data storage : 64 Mb compact flash card (higher capacities available)
- Data management : standard SW package Win 2000 or XP professional
- Instrument configuration : either from front panel or via USB port
- Serial output : USB port (RS 232 as option)

- Services Hydrogen : IP 25 ml/min from external gas cylinder
 Air : 300 ml/min, from in built generator
- Suggested calibration gas cylinder : 10 ppm propane, air balance
- Dimensions : 390x290x200 mm (16"x11.5"x8", WxDxH)
- Weight : 9.5 Kg
- Carrying case : reinforced aluminium box with carrying strip
- Standard power supply : 220/110 Vac 50/60 Hz (to be specified in order)
- Power consumption : 500 VA
- Pneumatic connections : 1/4" or 4/6 mm and 1/8" or 1/2 mm tubes

Standard supply includes the 316 SS sampling probe, according to UNI 10263 norms, as well as 3m heat traced sampling line.

HOW TO ORDER:

CODE NUMBER	DESCRIPTION
041-6004	Mod. 2005, portable VOC monitor, 220 Vac 50 Hz
041-6005	Mod. 2005, portable VOC monitor, 110 Vac 60 Hz
041-6031	Mini cylinder carrying basket (two cylinders)
041-6013	Hydrogen cylinder, 1 l with pressure reducer
041-6011	Calibration gas cylinder, 1 l with pressure reducer
041-6021	Expendables kit
041-6022	Spare parts kit

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