

PCF ELETTRONICA S.R.L.

VOC/THC PORTABLE GAS CHROMATOGRAPHIC ANALYSER MOD. 8807

For both continuous source and ambient air monitoring



- Proprietary micro FID detector
- Multi method capabilities
- MMC memory data card
- Easy to configure, to use, to maintain

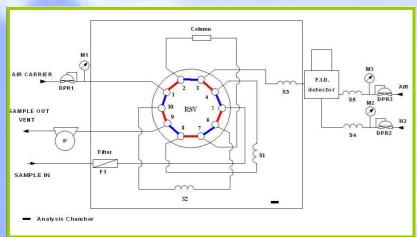
FID DETECTOR

The FID detector is a carbon atom counter. A sample is introduced into a micro flame lit 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. The actual carbon concentration is computed from a calibration with a traceable reference gas mixture. The electrical charges are collected by two polarised electrodes and converted by an electrical circuit into an electronic signal.

DESCRIPTION

PCF's Mod. 8807 is mainly intended for measurements of reactive hydrocarbons in ambient air and/or source gas by subtracting from the total concentration of hydrocarbons the methane fraction.

The analyser however can easily be reconfigured for specific hydrocarbon measurements. A sample pump on the back of the pneumatic circuit fills a calibrated capillary, whose content is injected via a 10 port rotation valve into a chromatographic column filled with PQS or a most suitable substrate that allows separation of methane fraction from the total hydrocarbons.



Built in zeroing of the instrument, before each measuring cycle, guarantees an high zero drift stability.

All electronic signals are visible on display as well as available on the analogue outputs of the instrument.

Gas chromatogram is shown on LCD colour display.

An INTEL microprocessor manages all functions relative to analytical sequences as well as data management.

Built in self diagnostic software package controls preconditioning phase, analytical sequences and alarm status.

Through the firmware recorded on MMC

memory located on the card inserted from the front panel, the instrument can easily be set for specific hydrocarbons, e.g. aromatics, ethylene oxide, solvents, acetone etc., up to maximum of eight species. The chance of

replacing the program card as well as the chromatographic column makes Model 8807 the best solution for monitoring any type of polluting hydrocarbon species.

Measured and status data are recorded on a 512 Mbytes MMC Memory card. The latter inserted in a PC allows any type of data management and memorisation.

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TECHNICAL SPECIFICATIONS:

- Active range

- Measuring ranges CH₄, THC and NMH

- Units

- Background noise

- Lower Detectable Limit (LDL)

- Zero stability (24 hours)

- Span drift (24 hours)

- Measuring cycle

- Response time

- Linearity

- Precision

- Sample flow rate

- Operating temperature

- Digital display

Data Storage

- GC configuration

Memory card

- Data management

- Analogue outputs for each component

- Serial output

Zero drift

- Zero/Span control

- Services

Hydrogen Pure air

Service air

- Calibration, by traceable gas cylinder

Mounting

- Dimensions

- Weight

Standard power supply

- Pneumatic connections

: 0 - 10,000 ppm

: (six ranges) 0-10/20/50/100/200/500 ppm

(other ranges optional)

: ppm or mg/Nm³

: 0.01 ppm

: < 1% full scale

 $: \pm 0.5\%$

: ± 1%

: from 20 up to 180 sec. max.

: from 20 up to 180 sec. max.

: better than 1% full scale

 $:\pm 1\%$

: 600 ml/min.

 $: 5 - 40 \, ^{\circ}\text{C}$

: 640 x 200 pixel colour LCD graphic display

touch screen

: by MMC card easily readable by PC

: recorded MMC card to be inserted in front panel

slot

: Standard MMC (512 Mbytes included)

: Standard SW packages for 98/NT windows O.S.

: 0-1 VDC 4-20 mA (optional)

: standard RS 232, 9 pin connector

: self compensated

: set from front panel and/or remote control

: 30 ml/min (from transportable gas cylinder)

: 300 ml/min (from transportable gas cylinder)

: 4.5 Bar (63 psi)

: 3 ppm $CH_4 + 1$ ppm C_3H_8 , air balance

: transportable reinforced aluminium box

: 150x216x360 mm (6"x8.5"x 14", HxWxD)

: 13 Kg

: 230/110 Vac, 50/60 Hz, 300 VA (to be specified in

order)

: 1/4" or 4/6 mm and 1/8" or 1/2 mm

How to order:

CODE NUMBER	DESCRPTION
041-4001	Mod. 8807, portable VOC/THC/CH ₄ monitor, 230 Vac 50Hz
041-4002	Mod. 8807, portable VOC/THC/CH ₄ monitor, 110 Vac 60 Hz
041-4031	Mini cylinder carrying basket (three cylinders)
041-4013	Hydrogen cylinder, 11 with pressure reducer
041-4012	Pure air cylinder, 5 l with pressure reducer
041-4011	Calibration gas cylinder, 1 l with pressure reducer
041-4021	Expendables kit
041-4022	Spare parts kit
	041-4001 041-4002 041-4031 041-4013 041-4012 041-4011 041-4021

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