

# PCF Elettronica S.r.l.

## Ambient air monitoring

### Non Methane Hydrocarbon Analyser (NMHC) Model 527

- FID detector
- Methane separation by chromatographic column
- Fast cycle time
- In-built self diagnostic
- In-built flame auto-ignition procedure
- Low maintenance valve system
- Detection limit of 20 ppb
- Automatic calibration and span check
- Remote operation via RS 232
- Easy to integrate in automatic systems



### Total Hydrocarbon Monitor (THC) Model 527/T

- FID detector
- In-built self diagnostic
- In-built flame auto-ignition procedure
- Low maintenance valve system
- Detection limit of 20 ppb
- Automatic calibration and span check
- Remote operation via RS 232
- Easy to integrate in automatic systems



### Aromatic hydrocarbon gas chromatographic analyser BTX Model 528

- High stability FID detector
- Aromatic compound separation by proprietary columns
- In-built self diagnostic
- In-built flame auto-ignition procedure
- Low maintenance valve system
- Detection limit 0.1  $\mu\text{g}/\text{m}^3$
- Automatic calibration and span check
- Remote operation via RS 232
- Easy to integrate in automatic systems

## Industrial applications

### Multi-point automatic FID monitor

#### Model THC-110

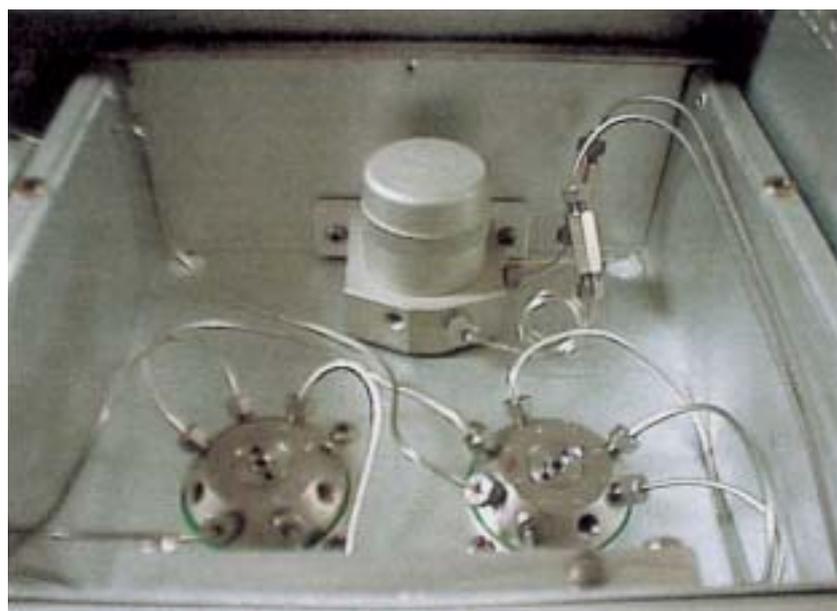
For continuous **L.E.L. - VOC/THC** in process monitoring

- Hot FID detector (200 °C)
- Heat traced sampling system
- Fast cycle time
- In-built self diagnostic
- In-built flame auto-ignition procedure
- Low maintenance valve system
- Easy to maintain and integrate in automatic systems
- Remote/Local calibration and span check
- In-built safety and alarm program

### Ten point automatic L. E.L. industrial analyser

#### Model THC-110

For continuous **L.E.L. - VOC/THC** in exhaust air monitoring of printing and smearing processes



### Engineering capabilities

PCF's long field experience in gas chromatography can be of great help in tackling and solving your application problems with

- specific analytical programs
- sample treatment
- customised instrument configuration.

Most of PCF's systems are mounted in 19" racks and can include

- Stream many fold
- Customised analyser
- Ultra pure air supply
- Hydrogen supply
- Remote/Local zero and span check
- Safety and alarm system configuration
- Rear interface for remote control and management
- High flexibility in meeting customers' needs

# Toxic

## Industrial gas chromatographic analyser

### Model 528/GC

For continuous monitoring of specific pollutant hydrocarbons, e.g. Ethylene Oxide, Vinyl Chloride, Propylene, Toluene, Ethyl Acetate, Acetone, Styrene, Monomers etc.

- FID detector
- Fast cycle time
- In-built self diagnostic
- In-built flame auto-ignition procedure
- Easily customised for up to 6 species (contact manufacturer)
- Low maintenance valve system
- Automatic calibration and span check
- Remote operation via RS 232
- Easy to maintain
- Easy to integrate in automatic systems



## Portable gas chromatographic analyser

### Mod. 9388

Suitable for both ambient and source monitoring

- Hot FID detector
- Methane separation by chromatographic column
- Fast cycle time
- Low maintenance valve system
- Low maintenance sampling and analysis system
- Detection limit of 20 ppb
- Easy to maintain and operate in the field
- Available in the configuration for specific toxic hydrocarbons
- In built data base card (up to 10,000 data stored)
- In built customised analysis card
- Built according to UNI 10391 regulations
- Certified according to ISO 9169 at CESI SpA

## Electrochemical cell monitors

Both single or two cell monitors suitable for measurements of O<sub>2</sub>, CO, NO, NO<sub>2</sub>, SO<sub>2</sub>, HCl, H<sub>2</sub>S, H<sub>2</sub> etc. in

- Source monitoring
- Combustion efficiency check
- Trace monitoring at sources

### Portable monitors Model 2100

Are intended to measure and display the concentration of a great variety of species.

- Available in single channel version
- Easy to use
- Also battery powered (up to 8 hour autonomy)
- Accuracy : 4% full scale



### Fixed monitors Model ECS 400

Are intended to measure and display the concentration of a great variety of species.

- Available in up to eight channel version.
- Easy to use
- Available both in table top and rack mount version
- Accuracy : 4% full scale



# Ancillary equipment

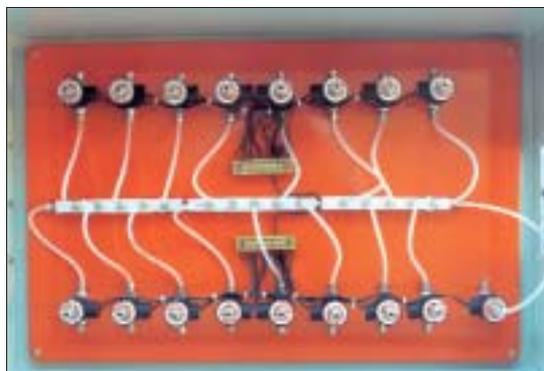
## High purity air generator

### Model 9588

- Catalytic oxidation of organic pollutants
- Air purity better than 0.1 ppm HC
- Up to 500 ml/min flow rate
- Particularly suitable for FID analysers/monitors
- Rack mounted
- 1/4" (4/6 mm) pneumatic connections

## Hydrogen and nitrogen generators

- Bench top or rack mounted version
- High purity hydrogen/nitrogen suitable for FID detector
- High water reservoir
- Easy to maintain
- Easy to use



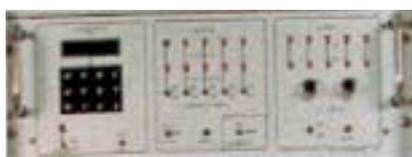
## Multi-stream selector

### Model FC/S10

- Up to 10 stream selection (optional 20 streams)
- Timer easily programmed from 12 to 45 minutes
- Hand and/or automatic operated selection
- Pneumatics built in AISI 316 SS and/or PTFE
- Free alarm set values (0-100%)
- Optional IP65 protection

## Sampling probe

- Length as per order
- SS with ceramic filter on the tip



## Heat traced line

- Length as per order
- Temperature regulator



## Mini cylinder basket (2 - 3 cylinders)

World wide distributor  
PandA Services  
Via E. Borsa, 10  
20052 Monza MI Italy  
Ph +39-039-835457  
Fx +39-039-2841066  
E-mail criccardi@sferainformatica.it

## Source monitoring

### VOC/THC gas chromatographic analyser Model 527A

- Hot FID detector (200 °C)
- Methane separation by chromatographic column
- Fast cycle time
- In-built self diagnostic
- In-built flame auto-ignition procedure
- Low maintenance valve system
- Low maintenance sampling and analysis system
- Remote operation via RS 232
- Automatic calibration and span check
- Easy to maintain
- Easy to integrate in automatic systems



### VOC/THC monitor Model 110

- Hot FID detector (200 °C)
- In-built self diagnostic
- In-built flame auto-ignition procedure
- Low maintenance valve system
- Low maintenance sampling and analysis system
- Remote/Local calibration and span check
- Easy to maintain
- Easy to integrate in automatic systems



### VOC/THC portable analyser Model 2001

- Hot FID detector (200 °C)
- Methane separation circuit by hopcalite scrubber
- VOC/THC/CH<sub>4</sub> detection procedure according to CEE CEN 264 # 326 and UNI 10391 regulations.
- Heat traced sampling system
- Heat traced pump head
- Easy to maintain
- Easy to operate in the field
- In built personal computer for data management and display
- Back up memory for up to 20 days
- Real time graphic diagram