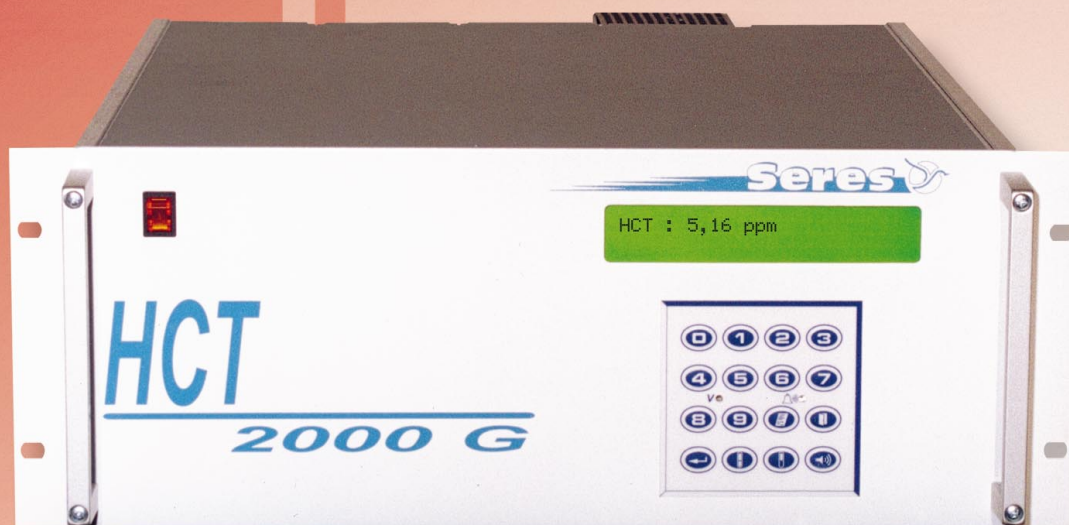


# Total Hydrocarbons or Volatile Organic Compounds Flame Ionisation Detection

## MODEL HCT 2000 G

FRENCH STANDARD AFNOR X 43.301



### AMBIENT AIR

Series 2000 G is a line of ambient air analysers using the same printed circuit boards. "Physics" measurement principles associated to digital electronics designed around a 16-bits microprocessor gives the operator the necessary security for the monitoring and control of our environment.

### ANALYSER ENSURING ENVIRONMENTAL PROTECTION

The HCT 2000 G is an advanced design analyser that incorporates the latest achievements in continuous hydrocarbons measurement.

- A 4 x 40 character digital display and 16-keyboard permit a dialogue between operator and analyser. Several menus are available for maintenance aid, calibration, zeroing...
- Continuous microprocessor self-diagnostic with display and remote transmission
- Digital signal processing. This new and advanced design improves accuracy while maintaining a very short response time.
- Internal measurement storage memory with data transfer to computer or printer via RS 232 C output.
- *OPTION : NON-METHANE HYDROCARBONS MEASUREMENT*

**Seres**  
ANALYSERS

AIR QUALITY UNDER STRICT SURVEILLANCE



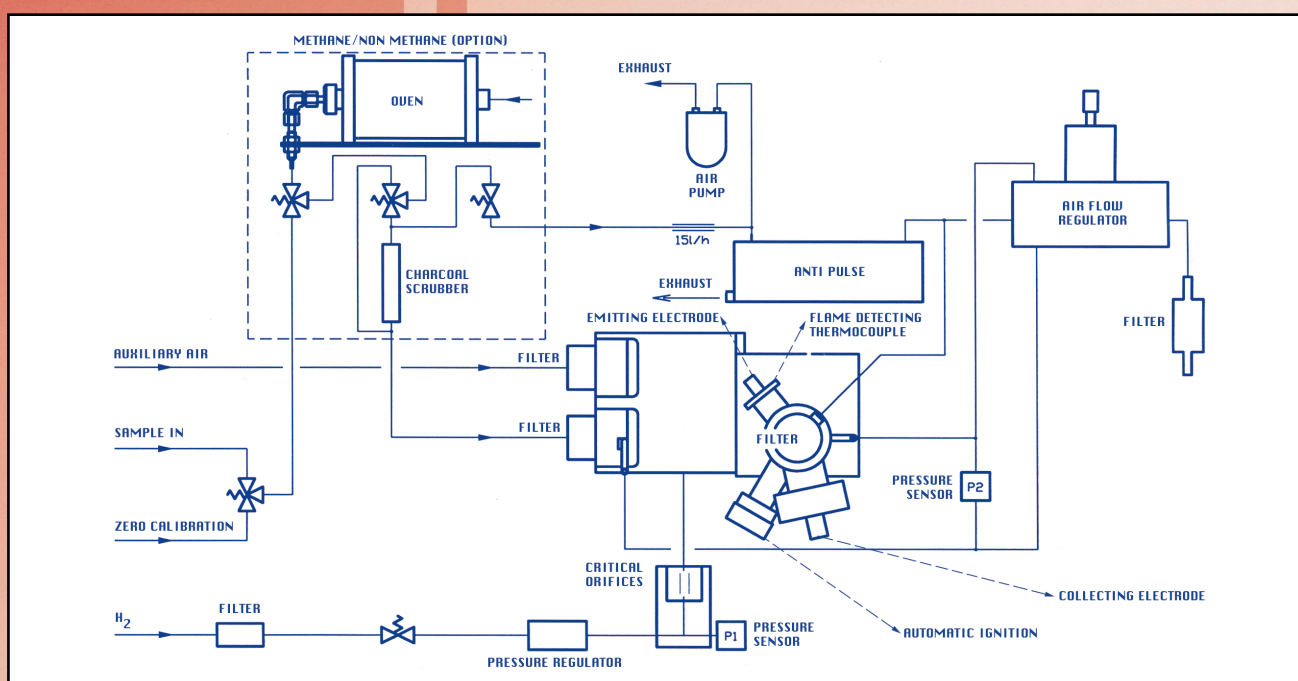
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## PRINCIPLE

The main characteristic of this F.I.D. detector is that it uses a sampling pump which is located downstream of the burner ; absorption or condensation risks upstream of the analyser are thus avoided. Moreover the burner design is such that ambient air will be used as an auxiliary combustive thus avoiding the use of a bottle or of a pure air generator. To control the sample flow a specially designed depression regulator system maintains a constant pressure drop across the burner. As the burner is held at constant temperature

the flow remains strictly constant even if the inlet filter becomes partially blocked or the pump performance changes due to deposits on the valves. This novel arrangement contributes significantly to the avoidance of drifts. On option we add in the same cabinet a little chromatographic column wich separates methane from the other hydrocarbons. In such a case automatic zero is carried out at every cycle using internal zero air generator.



## TECHNICAL SPECIFICATIONS

- **Ranges** : 10 ppm to 10 000 of methane (can be calibrated with any organic compound).
- **Lower detectable limit** : < 0.020 ppm
- **Response time** : from some seconds to 1 minute.
- **Zero drift** : < 0,2 ppm per week.
- **Span drift** : < 1 % per week.
- **Linearity** :  $\pm 1$  %.
- **Temperature range** : 0 - 40° C.
- **Humidity** : 0 - 96 % non condensing.
- **Power consumption** : 300 V.A.
- **Power supply** : 220 V - 240 V / 50 Hz.
- **Mounting** : standard 19" - 4 units rack, H = 180 mm, W = 480mm, D = 520 mm - 600 mm (non-méthane).
- **Weight** : 24 kg.
- **Internal pump**.
- **Sample flowrate** = 4 l/h.
- **Hydrogen flowrate** = 4,5 l/h.
- **Auxiliary air flowrate** = 18 to 60 l/h.
- **Solenoid valves** for zero/span (remote or manual control).
- **Zero air generator** on option.
- **Analog output** : 4 - 20 mA with galvanic insulation (other outputs on request).
- **Digital** RS 232 C output. Printer interface.

SPECIFICATIONS ARE PER US E.P.A. AND GERMAN U.B.A. TEST CRITERIA. ALL US E.P.A. SPECIFICATIONS EXCEEDED.

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ANALYSERS

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