

Technical specifications

- One chromatographic input
- 6 TTL digital inputs
- 16 output relays – Power supply 220 VAC – 1A
- 8 outputs - collector open – Power 24 VDC
- Resolution..... 22 bits chromatographic input
- Input voltage..... +/- 2.5 v
- Input impedance..... 500 kΩ
- Power..... 220 VAC 50/60Hz 200w
- Possibility to store 20 chromatograms
Maximum of 24 peaks per chromatogram
- One LPT Printer output
- 2 RS232 outputs
- Max of 8 concentrations through 4-20mA signal
- Carrier gas..... Argon, Nitrogen, Helium or Hydrogen
- Carrier flow rate..... Between 2 and 6 l/h
- Fuel gas..... Hydrogen
- Fuel gas pressure..... 1 bar
- Fuel gas flow..... 2 l/h
- Burner air..... Synthetic Air
- Burner air pressure..... 2 bars
- Burner air flow..... 20 l/h
- Impurities detected..... Organic components and CO/CO₂ with a methaniser
- **Detection limit..... < 1 ppb with Argon or Nitrogen carrier gas**
- Accuracy..... 1% of the reading scale
- Linearity..... +/- 1%
- Working temperature..... 10 to 35° c
- Storage temperature..... - 20 to 60° c
- Cell temperature..... 130° c



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FID 50

SIMPLIFY YOUR FUTURE...

The easy way
to perfect peaks



 **ORTHODYNE**
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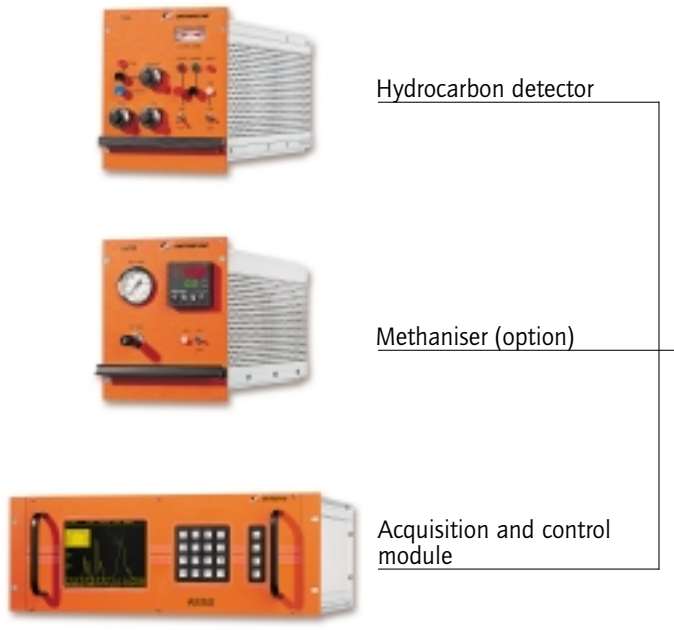
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FID 50: a new FID GENERATION

SIMPLIFY YOUR FUTURE...

The FID 50 is a compact multifunctional hydrocarbon analyser designed for higher accuracy, sensitivity and stability.

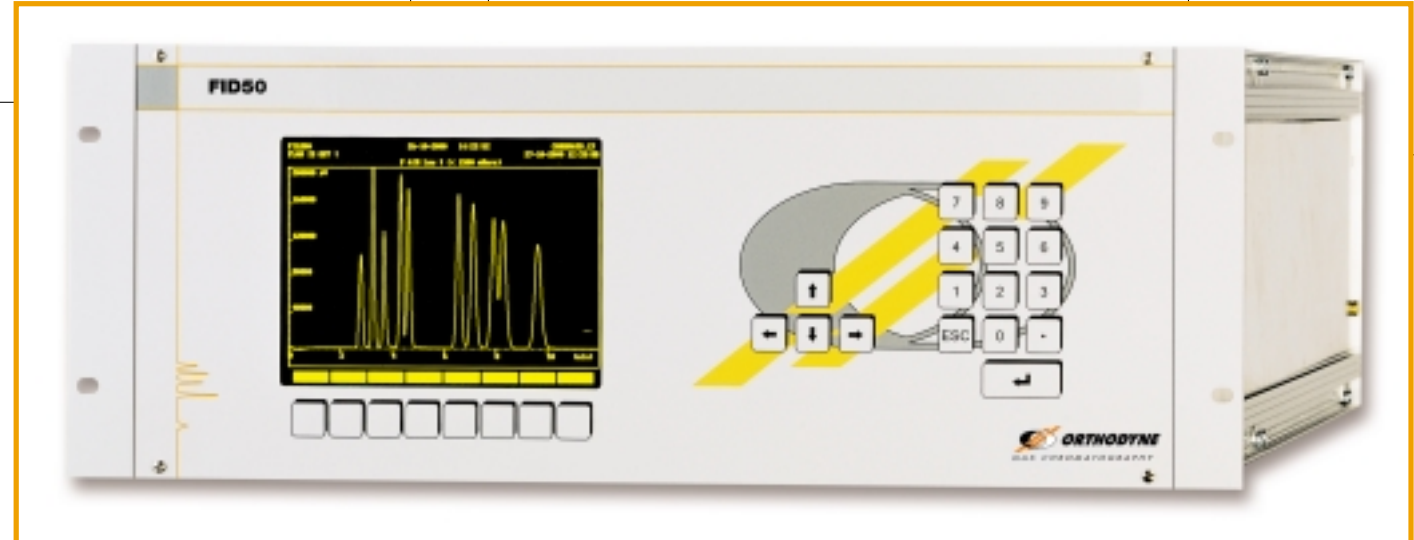
THREE FUNCTIONS IN ONE :



- Hydrocarbon detector
- Methaniser (option)
- Acquisition and control module

VERY LOW DETECTION LIMIT
< 1 ppb
 STABLE BASELINE

User-friendly graphic interface

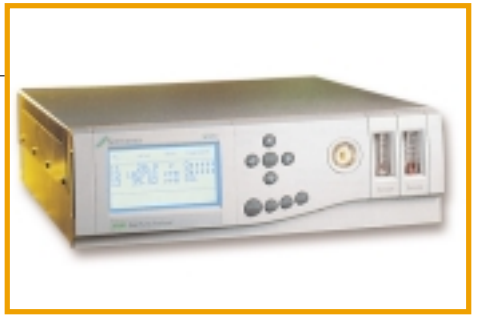


8 function keys for easy menu access

Self-contained screen and keyboard for direct information

Other characteristics

- Compact module (19" Rack 4U high).
- Hydrogen and synthetic air pressure sensors.
- All settings made through software. (e.g. : FID and methaniser temperature control, electrometer zeroing,...).
- Analyses made in single or cyclic mode.
- Possible selection of several analysis lines.
- Together with an injection valve module and an oven, the system realises analyses, stores results and makes calibrations.



Integrates data coming from a continuous analyser

EASY TO USE, EASY TO MAINTAIN

- The digital system reduces hardware components.
- This means less technical interventions and less spare parts to be replaced.



Security alarms keep the user informed (e.g. : H₂ and Air pressure too low, flame extinction)



Alarm peaks are transferred to a PLC or a control room through 4-20 mA



With an optional laser printer, you can print analysis reports

Available options

- Remote control**
Monitoring and remote diagnosis are made by Orthodyne through a modem to give you support in your everyday analytical work.
- Scheduler equipped** (Analysis made at a set time - external request)
- Continuous analyser control**
- 4-20 MA output**
- Methaniser unit**