

Technical specifications

- 1 One chromatographic input
- 1 6 TTL digital inputs
- 1 16 output relays – Switching Rate 220 VAC – 1A
- 1 Resolution..... 22 bits chromatographic input
- 1 Input voltage..... +/- 2.5 v
- 1 Input impedance..... 500 kΩ
- 1 Power..... 220 VAC 50/60Hz 200 VA
- 1 Possibility to store 20 chromatograms
Maximum of 24 peaks per chromatogram
- 1 One LPT Printer output
- 1 2 RS232 outputs
- 1 Max of 8 concentrations throught 4-20mA signal
- 1 Carrier gas..... Argon
- 1 Carrier flow rate..... Between 2 and 6 l/h
- 1 Impurities detected..... H₂, O₂, Ar, N₂, Kr, CH₄, CO

- 1 **Detection limit**..... H₂ < 50 ppb
O₂ < 50 ppb
N₂ < 50 ppb
CH₄ < 50 ppb
CO < 2 ppm

- 1 Accuracy..... 1% of the reading scale
- 1 Linearity..... +/- 1%
- 1 Working temperature..... 10 to 35° c
- 1 Storage temperature..... - 20 to 60° c



AR 50

SIMPLY HIGH PURITY...

Analysis of H₂, O₂, N₂, CH₄ and CO in Argon



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AR50: a new DID GENERATION

SIMPLY HIGH PURITY...

The AR50 is a compact multifunctional argon ionisation detector designed for higher accuracy, sensitivity and stability.

VERY LOW DETECTION LIMITS

He < 50 ppb
 O₂ < 50 ppb
 N₂ < 50 ppb
 CH₄ < 50 ppb
 CO < 2 ppm
 STABLE BASELINE

Other characteristics

- 1 Compact module (19" Rack 4U high).
- 1 Argon carrier flow sensor.
- 1 All settings made through software. (e.g. : amplifier zeroing,...).
- 1 Analyses made in single or cyclic mode.
- 1 Possible selection of several analysis lines.
- 1 Together with an injection valve module and an oven, the system realises analyses, stores results and makes calibrations.

TWO FUNCTIONS IN ONE :



Argon ionisation detector



Acquisition and control module

User-friendly 1 graphic interface



Integrates data coming from a continuous analyser

EASY TO USE, EASY TO MAINTAIN

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

8 function keys for easy 1 menu access

1 Self-contained screen and keyboard for direct information



Process alarms keep the user informed (e.g. : power too low)



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