

Technical specifications

- One chromatographic input
- 6 TTL digital inputs
- 16 output relays – Switching Rate 110 – 220 VAC – 1A
- Resolution..... 22 bits chromatographic input
- Input voltage +/- 2.5 v
- Input impedance..... 500 kΩ
- Power..... 110 VAC 50/60Hz 200 VA
- 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
- Carrier flow rate..... Between 2 and 6 l/h
- Impurities detected..... H₂, O₂, Ar, N₂, Kr, CH₄, CO

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

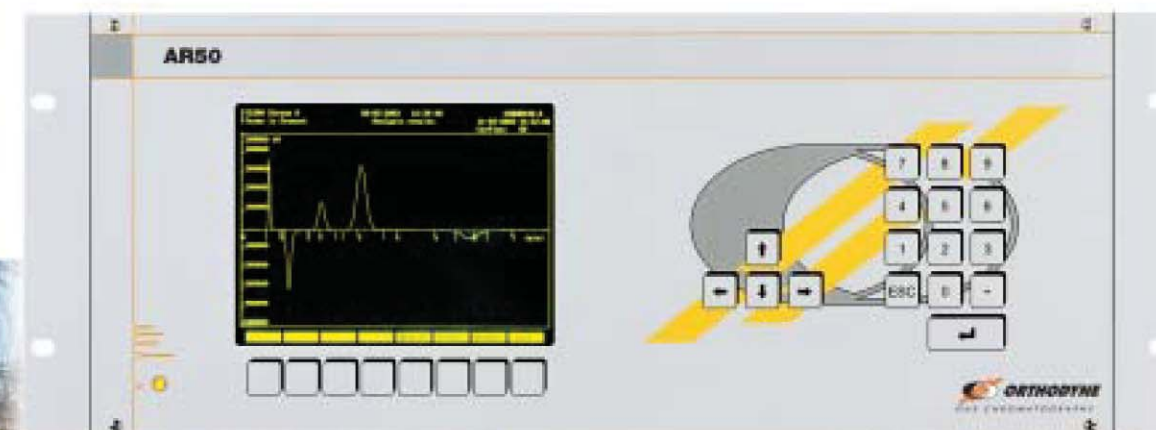
- Accuracy..... 1% of the reading scale
- Linearity..... +/- 1%
- Working temperature..... 50 to 95°f
- Storage temperature..... - 4 to 140°f



AR 50

SIMPLY HIGH PURITY. . .

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



COSA
INSTRUMENT

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AR50: a new DID GENERATION

Simply High Purity. . .

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

TWO FUNCTIONS IN ONE :



Argon ionization detector



Acquisition and control module

User-friendly graphic interface

VERY LOW DETECTION LIMITS

He < 50 ppb

O₂ < 50 ppb

N₂ < 50 ppb

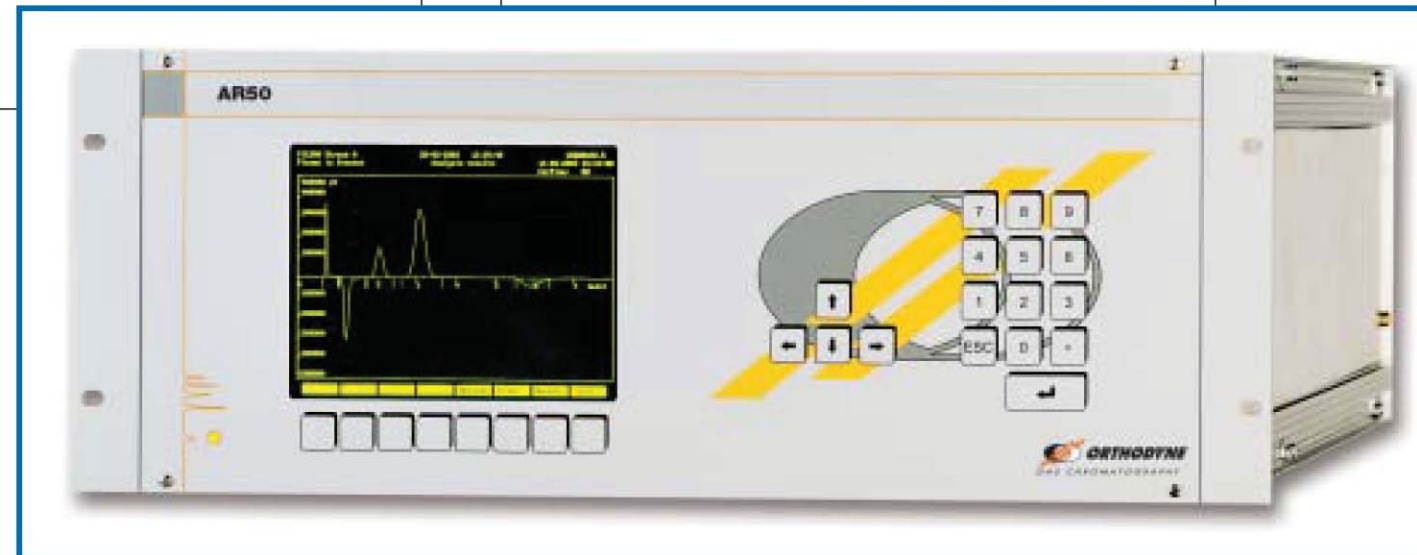
CH₄ < 50 ppb

CO < 2 ppm

STABLE BASELINE

Other characteristics

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



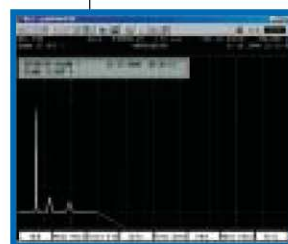
Integrates data coming from a continuous analyzer

EASY TO USE, EASY TO MAINTAIN

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

8 function keys for easy menu access

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 Analyzer Control

4 - 20 mA Output