

## GENERAL SPECIFICATIONS

Detectors available	FID, TCD, DID-Argon, DID-Helium
Valves available	Rotating valves (4-port valve, 6-port valve, 8-port valve, 10-port valve)
Columns	1/8" filled columns, different lengths and types such as molecular sieve, Porapak, Hayesep...
Gas connections	1/8" Swagelok or 1/8" VCR
Sample flow	3 to 5 l/h
Sample pressure :	< 100 mbar
Carrier pressure	4-9 bar
Working temperature	20°C stable (ambient temperature)
Weight	+/- 20 kg
Dimensions	Rack 19" (width : 482 mm, depth : 600 mm, height : 221 mm)
Display	LCD 8.4"
Connection type	3 x USB RJ45 RS232

## OPTIONS

Rackable module with chromatographic valves and columns may be added for specific applications.



sales@  
www.orthodyne.be

# Line 500



*A new generation  
of intelligent detectors*



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Avenue de l'Union 25A - B-4430 ANS - BELGIUM  
Phone : +32-4-263 90 90 - Fax : +32-4-263 09 79  
E-Mail : sales@orthodyne.be

 **ORTHODYNE**  
GAS CHROMATOGRAPHY

# NEW ANALYSER Line 500

The new analyser "line 500" consists of an analytical system that allows the measurements of several impurities in different gases with the required detectors.

The following detectors are commonly used inside our new line 500:

- **F.I.D.** (Flame Ionization Detector),
- **T.C.D.** (Thermal Conductivity Detector)
- **DID/ARGON** (Discharge Ionization Detector)
- **DID/HELIUM** (Discharge Ionization Detector)
- and in a near future, the new **R.G.D.** (Reduction Gas Detector)

The different chromatographic configurations such as "back-flush", "Heart cut", "multiple sample loops" and "multiple separation columns" can be used inside our new module 500.

When configuration becomes more complex, a second 19" module containing the chromatographic valves and columns can be easily added.

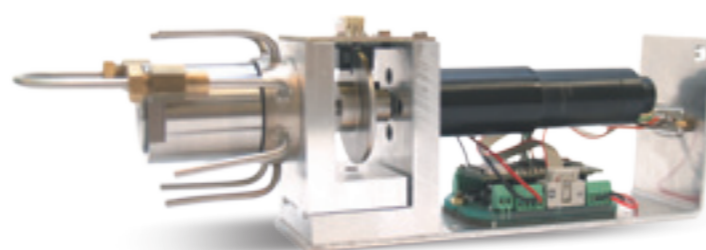
The new line 500 has been designed for stand alone operation. Easy configuration and quick start-up make this new system ideal for process gas analysis.

In addition to its user-friendly interface (touch screen display), the new line 500 has its own chromatographic software that allows the concentration of each impurity to be displayed directly. Moreover the new line 500 can be remotely controlled through Ethernet or Internet.

The new line 500 can be customized to answer any analytical application.

Besides the miniaturization of its components, the big asset of this new line 500 is to keep the modularity and the user-friendly interface of the Orthodyne modules.

In addition to the flexibility in the analytical configuration, the electronics may also be customized to read several analog and digital signals. Any extra alarm or automatic contacts may also be added for any type of application.



#### VALVE MODULE

- Orthodyne manufactures its own chromatographic valves
- Miniaturized
- Valve actuator (no more instrument air required)
- Stainless steel 316 L



#### OVEN MODULE

- Miniaturized and well isolated
- Stable and regulated temperature
- 1/8" Filled column



#### DETECTORS AVAILABLE

- FID : Flame Ionization Detector
- TCD : Thermal Conductivity Detector
- DID/Helium : Discharge Ionization Detector
- DID/Argon : Discharge Ionization Detector



#### MPC

- Mass pressure controller



#### USB

- Optional External keyboard
- USB stick

#### USER INTERFACE

- Colour touch screen display
- Navigation keys
- Easy access menu
- User-friendly software

#### EXTERNAL COMMUNICATION

- Process alarm output (AL H, AL HH, general failure) by dry contact.
- Analog Output : 2x 4-20 mA
- Profibus, Modbus, RS232/485 compatible
- Printer
- Ethernet interface
- Interface for a remote control analyser

*Complete and high-performance analytical solutions in a 19" rack*