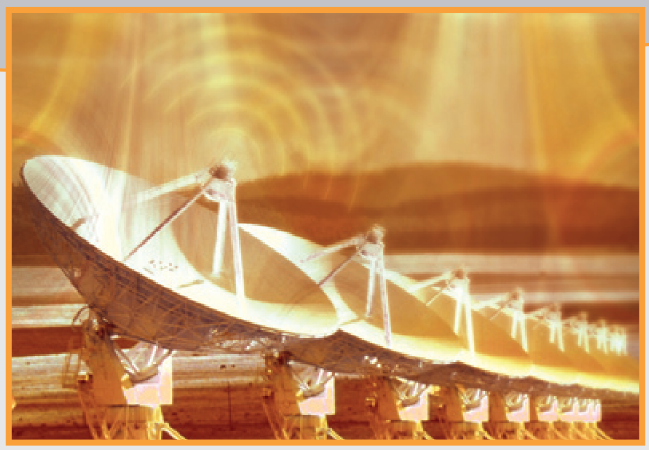
GENERAL SPECIFICATIONS

Detectors available	FID, TCD, DID-Argon, DID-Helium
Valves available	Rotating valves (4-ports valve, 6-ports valve, 8-ports valve, 10-ports valve)
Columns	1/8" filled columns, different lenghts 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	4-10 bar
Working temperature	20°C stable (ambient temperature)
Weight	+/- 20 kg
Dimensions	Rack 19" (width : 482 mm, depth : 600 mm, height : 221 mm)
Connection type	RJ45 RS232

OPTIONS

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



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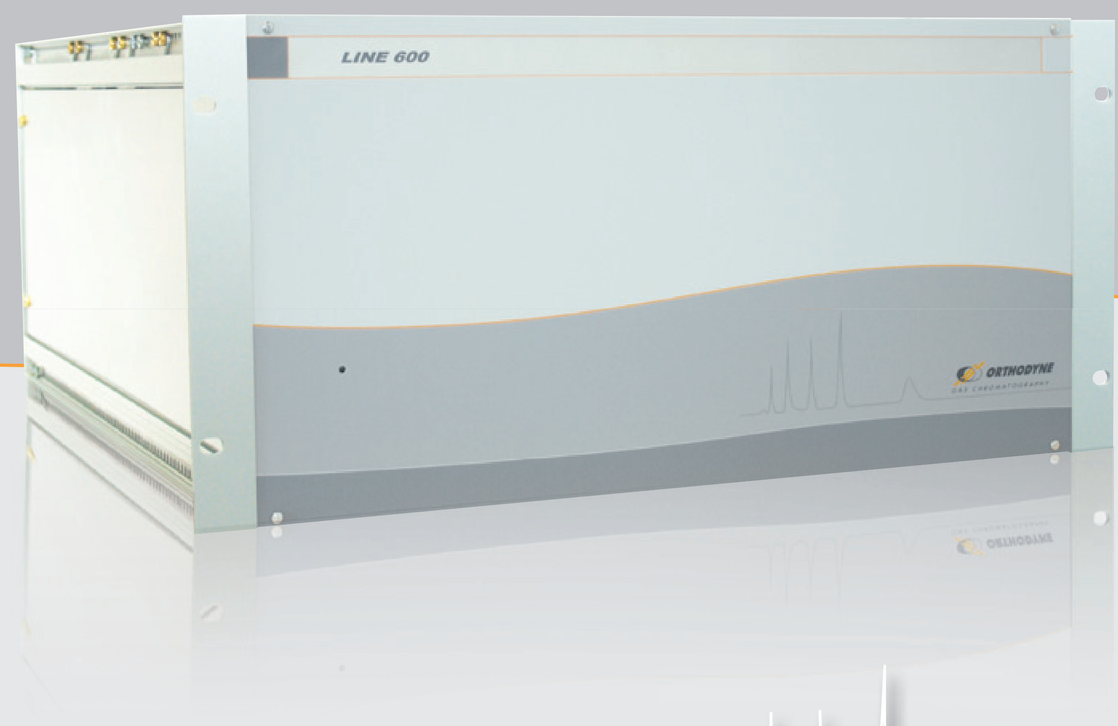
E-Mail : sales@orthodyne.be

Line 600

www.orthodyne.be
sales@

A new generation of intelligent detectors



ORTHODYNE
GAS CHROMATOGRAPHY

NEW ANALYSER

Line 600

The new analyser "line **600**" consits of an analytical system that allows the mesurements of several impurities in different gases with the required detectors

The following detectors are commonly used inside our new line 600 :
F.I.D. (Flame Ionization Detector)
T.C.D. (Thermal Conductivity Detector)
D.I.D. */ARGON* (Discharge Ionization Detector)
D.I.D. */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", "heartcut", "multiple sample loops" and "multiple separation column" can be used inside our new module 600.
When configuration becomes more complex, a second 19'' module containing the chromatographic valves and columns can be easily added.

The new line 600 has been designed for working with Chromdyne software on a computer. It make this new system ideal for laboratory process gas analysis.
Moreover, the new line 600 can be remotely controlled through Ethernet or Internet.

The new line 600 can be customized to answer any analytical application.
Beside the miniaturization of its components, the big asset of this new line 600 is to keep the modularity and 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.

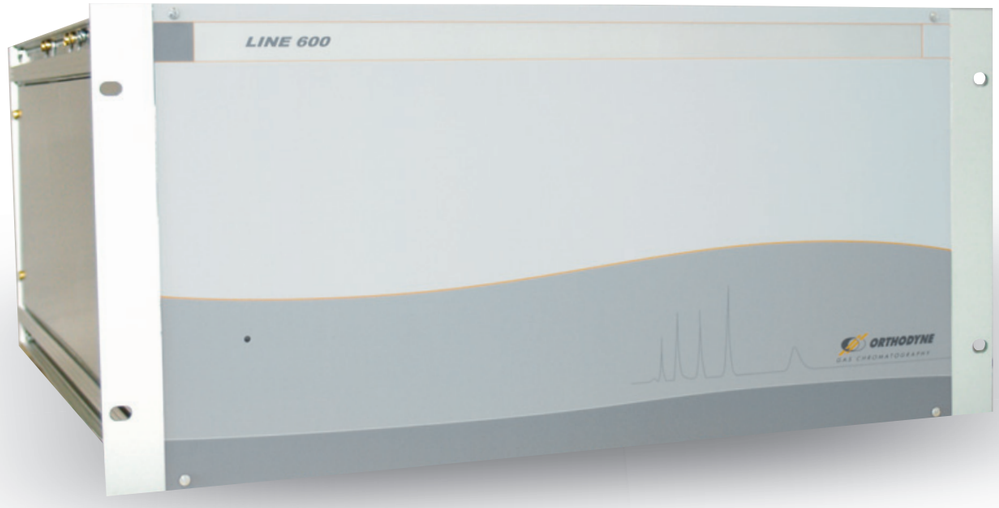
MPC
- Mass pressure controller

VALVE MODULE
- Multi-layer based polymer diaphragm system
- Miniaturized
- Stainless steel 316L

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/Argon : Discharge Ionization Detector
- DID/Helium : Discharge Ionization Detector

USER INTERFACE
- Connected to a PC by TCP/IP protocol
- Chromdyne software
- Interface for a remote control analyser



THE CHROMDYNE SOFTWARE

Chromdyne controls one or two analysers simultaneously, intended for laboratories and process gas analysis. The system works under Windows 98, NT, XP, VISTA or 7. It is also suitable for network applications.
Chromdyne will enable the user to easily customise a specific analysis sequences by controlling the sample selection valves. A range of easily accessible parameters corresponds to each analysis : automatic, cyclic or interactive.
Chromdyne store all analysis. They can be searched by date, type or other parameters to be defined (e.g. cylinders identification).
Chromdyne allows the analysis report for each detector, containing the chromatogram and the integration results to be printed. Analysis certifications can also be printed for all detectors. They can include a summary of the impurities with the identification of the alarms as well as the impurities of the on-line analysers.
A history informs the user at any time about the status and the satisfactory operation of the program (historical display of the errors).
Chromdyne is available in French, English and German, and on request in any other language.
Chromdyne permits the reading of associated signals coming from, for example, pressure sensors, on-line analysers, temperature measurements,...

EXTERNAL COMMUNICATION
- Process alarm output (AL H, AL HH, general failure) by dry contact
- Analog output : 2x 4-20mA

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