

TECHINICAL FEATURES

Management of temperature

- Regulation of 5 heating zones, as per norm
- Simple regulating process
- Cascade control (2 Thermocouples per heating zone) available
- Management of any type of thermo-couple (Standard J, K, R, S)
- Management of cooling (ventilator, exchanger)

Management of atmosphere

- Regulation and control of the potential carbon (%C per O₂ sensor and/or CO-CO₂ analyser)
- Management of cleaning of O₂ sensor (Blast valve benchmark and cleaning)
- Management of increase by two additional gas valves (Mass flow, proportional valves)
- Management of the fixed, variable or controlled CO₂ rate
- Management of the protective gas N₂
- Management of 3 more additional gas lines
- Management of the special sensors (high temperature or low temperature) for ceramic, crematorium, furnace etc

Management of the cycles and parameters

- Multi-language interface: French, English, German, Italian and Spanish (Other languages available on request)
- Management of max. 99 blocks of chained program
- Simple program profile (T°, %C and time intervals)
- Programming of the profile to be reached (T°, required depth and hardness)
- Management of heating and cooling rate by slopes at °C/h
- Automatic or manual start and stop cycle
- Management of alarms
- Management of all the technical parameters of tuning and configuration (PID, benchmark and temporizations)
- Safeguarding of parameters on the fixed compact flash card
- Data protection by passwords

Options

- Management of heating by analogical signal (by thyristors)
- Additional optional output of the level of temperature and intended potential towards an external tracer
- Use of mass flow meters

CODEPE

INDUSTRIAL FURNACES FOR HEAT TREATMENT

CarboMonitor 700

	[°C]	[%C]	Measures
Setpoint	800	0.70	Zone 1 822 °C
Measure	801	0.72	Zone 2 809 °C
			Zone 3 815 °C
		Soots limit	
		0.87	

Start Cycle	Waiting phase	0
First step n°	Remaining time [sec]	0
1	Elapsed time [sec]	0

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AGENT'S STAMP



Introduction

CODERE Controller 700 series has the benefit of more than 20 years of experience, in research, development and management in the field of regulation and control of atmosphere.

Codere offers a solution of quality, adapted in terms of reliability, cost and flexibility for meeting various requirements of atmospheric regulation or for the control of oxygen required by any type of heat treatment installation.

CarboMonitor 700 has the option of managing the following:

- Furnaces of any type
- Quenching bath
- Washing machines
- Crematorium furnaces
- Ceramic furnaces
- Burners and distillation equipment

Advantages

- Each station composing of the installation (furnaces, quench bath, manipulator, etc) are independent
- Fast and reliable communication via Ethernet (RJ45)
- Visualisation and distant control at several locations (including through Internet)
- Possibility of connecting to the regulator network with any PC (Internet Explorer 6 or higher)
- Can be connected to the network to manage several stations or parts (an entire workshop)
- Easily integrates with the network of your company

A top quality graphic interface

- Combined with a modern multi-lingual graphic display, CarboMonitor offers a user-friendly option to assist the end-user (based on Internet norms).
- Via specialized screens, it allows an easy to use regulation of temperature and atmosphere control.
- Coloured monitor (6.4" or 8"), as per norms. A standard computer with an Internet Explorer 6 or higher may replace the touch screen



Examples of different installations

