



C-Level-Controller Carbo 100

Special features:

- Vacuum fluorescent display
- Calculates C-level from the residual oxygen or CO₂-content in furnace atmospheres
- Menu-guided operation
- High safety in operation by galvanic separation of all inputs
- Optional connection of two thermocouples Type "K" or "S"
- Additional input for CO-analyzer
- External programmer linking possible
- Use with motorized gas valve or gas- and air solenoid valve
- Control output for proportional valve
- Recorder output
- Foil equalizing
- Direct numerical data on display
- Relay outputs with 16 A capacity

Function:

The **Carbo 100** is an intelligent C-Level-Controller for connecting different types of sensors. The unit calculates the C-level from input signals and controls the C-level.

This controller offers a favourably priced system for controlling carbon potentials in heat treatment furnaces.

The system still contains the facilities offered by more expensive systems, such as actual C-level value correction. The investment is soon amortized even on smaller furnaces.

Parameter (fixed values):

CO content if CO analyzer is not connected
Correction data (e.g. foil test)
Correction factors L-probe
Temperature correction factor

Actual value correction:

To eliminate measuring errors and deviations due to special conditions in the furnace, a correction of the calculated C-level which is based on foil samples, is provided.

Control panel housing Made of sheet-steel.
Fixed by brackets.

Dimensions:

Front panel: 144 x 144 mm (hwx)

Housing including connector: 109 x 109 x 210 mm (hxwxh)

Cut-out in front panel: 113 x 113 mm (hwx)

Weight:

approx. 1.5 kg

Protection type:

IP 50 according to DIN 40050

Climate:

Storage: -10...+70 °C

Operation: 0...+50 °C

5...95 % relative humidity, non condensing

Auxiliary voltage:

24 Vdc ±10 %

Power consumption:

approx. 15 Watt

Analog outputs:

C-level: 0...1,5 %C -> 0...20 mA or 4...20 mA
(Recorder output)

y-output Gas: 0...10 V

y-output Air: 0...10 V

Digital outputs:

2 output controls max. 250 V / 1 max. 16 A, AC 1

Probe flushing max. 250 V / 1 max. 16 A, AC 1

Soot limit alarm max. 250 V / 1 max. 16 A, AC 1

"open collector" max. 30 mA / 30 V

Needed Accessories:

- Power supply 24 V

Optional Accessories:

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All specifications subject to change without prior notice.