

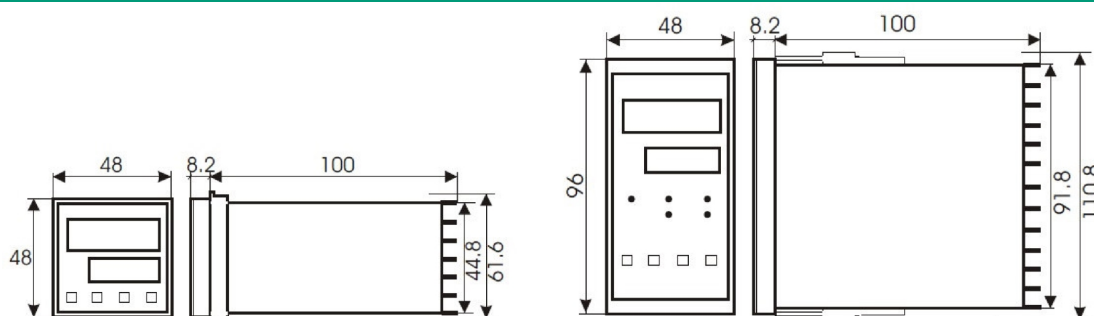
CH 102/ 104

Double display process controller for front panel

Front panel process controller with PID algorithm, autotuning, universal input, relay or logic or continuous or servovalve output control, Modbus RTU serial interface, multifunction digital input



Modbus



TECHNICAL SPECIFICATION

Nominal power supply	power supply 100÷240 Vca power supply 21÷48 Vca/cc
Power consumption	7 W a 100 Vca 10 W a 240 Vca 4 W a 21 Vca / Vdc 5 W a 48 Vca / Vdc
Ambient operating conditions	Temperature: 0 ÷ 50 °C Humidity: 45 ÷ 85% UR (without condensation)
Input	T/C tipo K T/C tipo J T/C type N T/C type T T/C type R T/C type S T/C type B T/C type E Pt100 Pt1000 0 ÷ 20 mA 4 ÷ 20 mA 0 ÷ 5 Volt 1 ÷ 5 Volt 0 ÷ 10 Volt 2 ÷ 10 Volt
Accuracy	ingresso RTD: ±0,2% v.f.s ingresso lineare (mA/Volt): ±0,2% v.f.s ingresso Termocoppia: ±0,2°C (compensazione automatica del giunto freddo) *accuratezza della misura a 25°C
Regulation output	4 different types of output can be selected when ordering: SPDT relay (maximum load 5 A @ 250 Vca) logic (15 Vdc max. 35 mA) continuous output in Volts (0 / 2 ÷ 10 V) or in mA (0 / 4 ÷ 20mA) with selection by means of jumper on instrument's electronic board servovalve control by means of 2 SPST relays (maximum load 3 A @ 250 Vca)
Power for two-wire transmitter	24Vdc max. 25mA
Digital input	Opto-isolated 2.5 kVolt 3 different operating modes can be programmed: switching between two different Set Points Automatic/Manual switching keyboard lockout
Alarms	2 with SPST relay output (maximum load 3 A @ 250 Vca)
Serial interface	RS485 opto-isolated 2.5 kVolt communications protocol: Modbus RTU baud rate: 2.400, 4.800, 9.600, 19.200bps access (reading / writing) to all regulator parameters
Type of display	4 digit a 7 segmenti (verde per PV e arancione per SV)
Other characteristics	manual or automatic control Autotuning Set Point ramp function 6 levels of access to programmable parameters operational limitation of maximum / minimum Set Point limitation of maximum power applicable to load control mode: heating or cooling
International protection marking (*) (*) According to IEC 60529	IP65 Front panel IP65
Installation category and degree of pollution	II
Dimensions	48 mm x 48 mm x 100 mm (model CH102) 48 mm x 96 mm x 100 mm (model CH402)
Panel cut-out	45 mm x 45 mm (CH102 model) 92 mm x 45 mm (model CH402)
Packaging	operator's manual in Italian Volt input adapter 250Ω shunt resistance for input in mA panel mounting strap
Programming software	ConfCH

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TEMPERATURE