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Miniature Benchtop Controllers - Discontinued

CSi32 Series



Miniature Benchtop Controllers

- Built Around OMEGA's Award-Winning Patented iSeries Controllers
- UL and cUL Certified
- 4 Digit, 3 Color Display
- 5-Year Warranty
- Simple to Configure and Use
- Full Autotune PID Heat-Cool Control
- Single Ramp and Soak Capability
- High Accuracy ±0.5°C (±0.9°F)
- Models with Thermocouple, RTD, Process Voltage or Current Input
- Two 5 Amp SSR Outputs Standard
- Second Output May be Used for Control or as an Alarm
- Optional Serial Communications
- Serial to USB Accessory Cable Included

Description

The CSi32 Series are discontinued. Please check our Newest PLATINUM Series Benchtop Controller CS8DPT for details

The CSi32 Series is Omega's benchtop controllers. They feature a 1/32 DIN size (96 x 48 mm) digital panel controller in a rugged benchtop metal enclosure. The controller used is Omega's award winning and patented iSeries with color-changing display. The iSeries meters feature the only LED displays that can be programmed to change color between **RED**, **GREEN**, and **AMBER** at any setpoint or alarm point. Other options include, serial communications. These controllers can be purchased with the input factory configured for one of 10 common types of thermocouples, multiple RTD types, or process (DC) voltage and current. They are ideal for laboratory use and applications requiring portable temperature and process control. Pre-wired input and output receptacles in the rear of the case enable quick and easy connections to power, input, power output and digital communications. The iSeries are full PID controllers with Autotune and can also be programmed for On/Off control via the front panel or through the use of a PC and the free configuration software. The iSeries configuration software is designed to interface with the any of the iSeries controllers and the CSi32 Series benchtop controllers with optional communication hardware.

SPECIFICATIONS
Accuracy: ±0.5°C temperature; 0.03% reading process
Resolution: 1°/0.1°; 10 µV process
Temperature Stability:
RTD: 0.04°C/°C
Thermocouple: 25°C (77°F); coldjunction compensation of 0.05°C/°C
Process: 50 ppm/°C
NMRR: 60 dB
CMRR: 120 dB

A/D Conversion: Dual-slope
Reading Rate: 3 samples per second
Digital Filter: Programmable
Display: 4-digit, 9-segment LED; 10.2 mm (0.40"); **RED**, **GREEN**, and **AMBER**, programmable colors for process variable, setpoint and temperature units
Input Types: Thermocouple, RTD, analog voltage, analog current
Thermocouple Lead Resistance: 100 Ωmax
Thermocouple Type (ITS 90): J, K, T, E, R, S, B, C, N, L
RTD Input (ITS 68): 100/500/1000 Ω Pt sensor; 2-, 3- or 4-wire; 0.00385 or 0.00392 curve
Voltage Input: 0 to 100 mV, 0 to 1 Vdc, 0 to 10 Vdc
Input Impedance: 10 MΩ for 100 mV, 1 MΩ for 1 or 10 Vdc
Current Input: 0 to 20 mA (5 Ω load)
Configuration: Single-ended
Polarity: Unipolar
Step Response: 0.7 s for 99.9%
Decimal Selection: None or 0.1 for temperature; None, 0.1, 0.01 or 0.001 for process
Control Output: Dual 5 A SSR (internal)
Setpoint Adjustment: -1999 to 9999 counts
Span Adjustment: 0.001 to 9999 counts
Offset Adjustment: -1999 to 9999
Control Modes: PID autotune, on/off, direct/reverse,
Alarm Modes: Absolute or deviation; high, low, hi/low and band
Input Connection:
Thermocouple: Accepts both miniature and standard male thermocouple connectors
Note: *A miniature and standard size male mating connector is included with each benchtop controller*
RTD, mA or mV: Five position terminal strip
Operating Ambient Range: 0 to 50°C (32 to 130°F)
Benchtop Case Material: Aluminum
Power Connection: Standard 3-prong power cord (provided)
Output Connections: Two standard 120 Vac outlets
Weight: 0.9 kg (2 lbs)
OPTIONAL COMMUNICATIONS
RS232/RS485: Selectable from menu; both ASCII and MODBUS protocol selectable from menu; programmable 300 to 19.2K baud; complete programmable setup capability; program to transmit current display, alarm status, min/max, actual measured input value and status
RS485: Addressable from 0 to 199
Connection: RJ12 connector on rear panel
Power: 100 to 120 Vac, ±10% 50 to 60 Hz

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† ***All amounts shown in USD***

Software:

Download iSeries ActiveX Control

Download iSeries Configuration Software

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