

CH 4-Digit Dual Display PID Temperature Controller

An economical, fully-programmable dual LED display PID controller, offered in a variety of standard DIN sizes. The units are easy to install and configure via the front fascia. Universal input as standard makes this a very versatile and economical solution. OEM discounts available.

- Selectable input (Thermocouple, Pt100, Current, Voltage)
- Fully programmable via the front fascia
- Optional initial pre-heating RAMP function
- Automatic/manual operation
- 24 V DC transmitter power supply option
- Dual programmable alarm
- 2 year warranty



Technical Details									
Input		Selectable between Thermocouple, Pt100, Current and Voltage							
Control		Factory set to PID control. Easily programmed to On/Off control							
Alarms		Dual Programmable Alarm							
Control Output		Relay Contact, Solid State Relay (SSR) or Current/Voltage							
Power Supply		100-240 V AC 50~60Hz or 21-48 V AC/DC 50~60Hz							
Operating Temperature		0°C to +50°C							
Operating Humidity		< 80%							
1	model	fascia dimensions	cutout dimensions	standard	code				
	CH102	48mm (W) x 48mm (H) x 100mm (D)	45mm (W) x 45mm (H)	1/16 DIN	CH102				
	CH402	48mm (W) x 96mm (H) x 100mm (D)	45mm (W) x 92mm (H)	1/8 DIN	CH402				
	CH502	96mm (W) x 48mm (H) x 100mm (D)	92mm (W) x 45mm (H)	1/8 DIN	CH502				
	CH702	72mm (W) x 72mm (H) x 100mm (D)	68mm (W) x 68mm (H)	3/16 DIN	CH702				
	CH902	96mm (W) x 96mm (H) x 100mm (D)	92mm (W) x 92mm (H)	1/4 DIN	CH902				
2	main control				code				
PID or On/Off control (programmable). Auto-tuning enables PID terms to be automatically calculated & configured.					F				
Heat / Cool PID control					W				
3	user selectable input				code				
	conductor type	range							
	K	0°C to +1372°C			K07				
	J	0°C to +1200°C			J06				
	T	0°C to +350.0°C			T04				
	N	0°C to +1300°C			N02				
	E	0°C to +1000°C			E02				
	R	0°C to +1769°C			R02				
	S	0°C to +1769°C			S02				
	B	0°C to +1820°C			B02				
	Pt100	-199.9°C to +649.0°C			D01				
	Voltage	0~5V, 1~5V, 0~10V, 2~10V			V01				
	Current	0~20mA, 4~20mA			A01				
4	control output				code				
	Relay Output, SPDT 5A @ 250 V AC, 6A @ 125 V AC				M				
	Solid State Relay (SSR), 0-12 V DC Logic Output, 35mA max load				V				
	Current Output - 0~20mA or 4~20mA. Voltage Output - 0~5 V or 1~5 V				8				
5	alarm output				code				
Dual Alarm supplied as standard, factory set as deviation high and deviation low. 2 x SPDT relays, 5A @ 250 V AC					AB				
Fully programmable via front fascia High/Low, Process or Band Alarms, with or without hold function.									
6	serial interface				code				
	RS485, MODBUS / RTU Protocol				C				
	Not required				N				
7	transmitter power supply				code				
	24 V DC 4~20mA Loop Power Supply (35 mA), with short circuit protection				V				
	Not required				N				
8	power supply				code				
	100-240 V AC 50~60Hz (Standard)				7				
	21-48 V AC / DC 50~60Hz. Consumption: 4W (21 V AC/DC), 5W (48 V AC/DC)				1				
order code		1	2	3	4	5	6	7	8
		CH102	- F	- K07	- M	- AB	- N	- V	- 7

