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 or 24 V AC/DC
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 Fully programmable via front fascia High/Low, Process or Band Alarms, with or without hold function.	AB

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. 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