Models Available

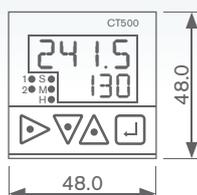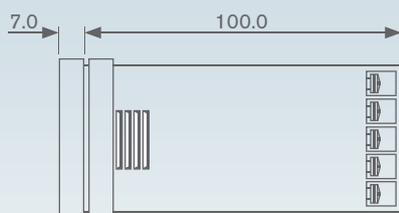**CT500ML** Digital Count Timer 24Vac/dc
CT500MH Digital Count Timer 85-270Vac

Product Features

- Dual LED display 4 digit counter timer
- 5 programmable timing modes
- 6 time ranges from 0.01 sec to 9999 hrs
- 24Vac/dc or 85 to 270Vac
- 2 N/O relay outputs
- External reset
- Security passcode
- IP65 enclosure code
- Panel mounting 48mm square enclosure
- Selectable up/down counter
- LED status and timing indicators
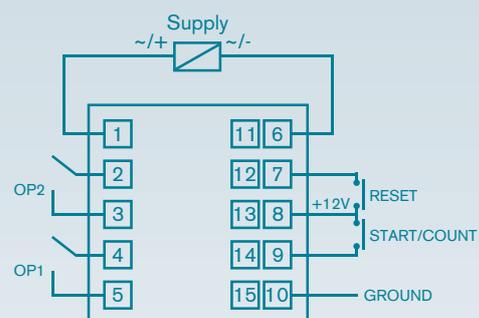- Matching temperature controllers

CT500 Digital Counter Timers

The Tempatron CT500 digital counter timer is a dual display multifunction, multi-time range digital counter and timer with two independent isolated relay output contacts, suitable for controlling operation of equipment or processes in a wide range of industrial applications.

Five timing or counting functions can be selected together with time ranges from 0.01 seconds to 9999 hours or a count range from -999 to 9999 with an optional scale factor. The lower display can show the second set point or batch quantity, or alternatively both displays can operate together as a 6 digit counter.

These timers are housed in a compact DIN48 square panel mounting enclosure and are powered from 24Vac/dc or 85 to 270Vac.

For timing control of machinery, systems and operational processes

Dimensions

Panel cutout 45mm square (-0.0/+0.5)

All dimensions in mm

Connections

Optional Proximity Sensor Connections

View on rear

Tempatron   Email: sales@tempatron.co.uk   Web: www.tempatron.co.uk   Continued...

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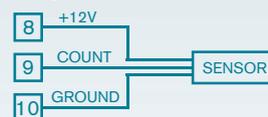
Ordering information

Model	Code	Description
	CT500ML	Digital Counter Timer 24Vac/dc
		Timer:
		(Relay 1: Delay on Energise, Interval, Delayed Cycling, Immediate Cycling)
		(Relay 2: Delay on Energise, Interval, Delayed Cycling, Immediate Cycling, Batch)
		Counter:
		(Relay 1: Delay on Energise, Interval, Auto Reset, Pulse Repeat)
		(Relay 2: Delay on Energise, Interval, Auto Reset, Pulse Repeat, Batch)
	CT500MH	Dual Digital Timer 85 to 270Vac
		Timer:
		(Relay 1: Delay on Energise, Interval, Delayed Cycling, Immediate Cycling)
		(Relay 2: Delay on Energise, Interval, Delayed Cycling, Immediate Cycling, Batch)
		Counter:
		(Relay 1: Delay on Energise, Interval, Auto Reset, Pulse Repeat)
		(Relay 2: Delay on Energise, Interval, Auto Reset, Pulse Repeat, Batch)
Example	**CT500MH**	

Specification

Repeat Accuracy:
- Timer: +0.05% of set time or 50ms (whichever is greatest)
- Counter: ±2 counts

Power Supply Voltage:
- CT500ML 24Vac/dc (±10%)
- CT500MH 85 to 270Vac

Burden
- <5VA

Frequency:
- 50/60Hz

Time Ranges:
- 99.99sec, 999.9sec, 9999sec
- 99:59min, 999.9min, 9999min
- 99:59hrs, 999.9hrs, 9999hrs

Start Modes:
- Pulse start, power up (external link)

Reset Modes:
- Power up, front panel or external reset

Counter Resolution:
- 0.001, 0.01, 0.1 or 1

Scale Factor:
- 0.001 to 9.999 x 10^n (n = -3, -2, -1, 0, 1 or 2)

Count Direction:
- Timer: down only
- Counter: up or down (selectable)

Counter Input:
- Voltage pulse (3 to 30Vdc) from proximity switch, encoder or other solid state device
- Voltage free contact

Sensor Supply:
- 12Vdc 30mA short circuit protected

Relay Output:
- Double pole N/O contact

Contact Rating:
- 5A at 240Vac/30Vdc (resistive)

Electrical Contact Life:
- 200,000 operations at 5A

Operating Temperature:
- 0°C to 50°C

Storage Temperature:
- -20°C to 75°C

Enclosure Code:
- Case IP65

Weight:
- 200g

Markings:
- CE marked (meets EN61010-1 low voltage and EN50081-1/50082-1 EMC directives)
- UL and CSA approved

Specification subject to change without notice.