



### Models Available

#### TD48ML Dual Digital Timer

#### Product Features

- 4 digit green LED display dual timer
- 9 programmable timing modes
- 6 time ranges from 0.1 sec to 99:59 hrs
- Supply voltages from 12 to 24Vac/dc
- 1 changeover and 1 N/O relay output
- Programmable reset function
- External hold and reset
- Security passcode
- Standard DIN48 square size
- Plug-in socket or panel mounting
- LED status and timing indicators
- Transformers available for 110V or 230V
- Plug-in sockets also available

## TD48ML Dual Digital Timers

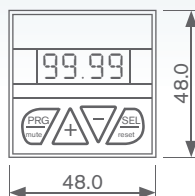
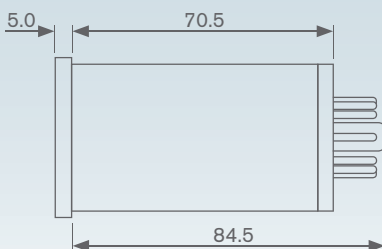
The Tempatron TD48ML dual digital timer is a 4 digit multifunction, multi-time range digital timer suitable for controlling operation of equipment, machinery, systems or processes in a wide range of industrial applications.

Nine timing functions can be selected together with time ranges from 0.1 second to 99:59 hours, to operate two independent relay output contacts which are isolated from the supply voltage. The output contacts can be configured as two timed outputs, or one timed and one instantaneous output.

These timers are housed in a compact DIN48 square enclosure which can either panel mount or surface/DIN rail mount to a socket and are powered from 12 to 24Vac/dc.

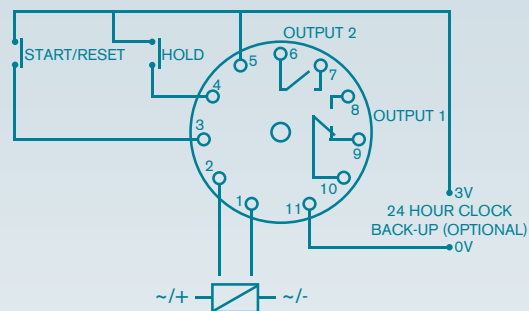
## For timing control of machinery, systems and operational processes

### Dimensions



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

### Connections



**Ordering information**

Model	Code	Description
	TD48ML	Dual 4 Digit Digital Timer 12 to 24Vac/dc (Delay on Energise, Dependent Delay on Energise, Delayed Pulse, Cycling, 2 Delay on Energise, 2 Interval, Delay on Energise & Interval, 2 Delay on De-Energise, 24 Hour Clock)

Options	Code	Description
	TRA12UNI11	110/12Vac Transformer
	TRA12UNI00	240/12Vac Transformer

Plug-in Bases	Code	Description
	CDSR11	11 Pin Rear Screw Panel Socket
	AZ611	11 Pin DIN Rail/Panel Mount Socket
	S11P	11 Pin DIN Rail/Panel Mount Socket

Example	Code	Description
	TD48ML with TRA12UNI00	

**Specification****Accuracy:**

- Scale accuracy:  $\pm 0.5\%$  or 20ms (whichever is greatest)
- Repeat accuracy:  $\pm 0.3\%$  of set time

**Power Supply Voltage:**

- 12 to 24Vac/dc ( $\pm 10\%$ )
- 110Vac with TRA12UNI11 transformer
- 230Vac with TRA12UNI00 transformer

**Burden**

- $< 3\text{VA}$

**Frequency:**

- 50/60Hz

**Back Up Battery:**

- External 3Vdc to retain clock on 24 hour mode only, upon loss of supply voltage

**Time Ranges:**

- 0.1 to 999.9sec, 1 to 9999sec
- 1 to 9999min, 00:01 to 99:59min
- 00:01 to 99:59hrs
- 00:00 to 23:59 in 24 hour clock mode

**Relay Output:**

- Single pole changeover contact and single pole N/O contact

**Contact Rating:**

- OP1 8A at 240Vac/30Vdc (resistive)
- OP2 5A at 240Vac/30Vdc (resistive)

**Electrical Contact Life:**

- 100,000 operations at rated output

**Reset Time:**

- 100ms approx.

**Operating Temperature:**

- $0^{\circ}\text{C}$  to  $50^{\circ}\text{C}$

**Storage Temperature:**

- $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$

**Enclosure Code:**

- Case IP65

**Weight:**

- 160g

**Markings:**

- CE marked (meets EN61010-1 low voltage and EN50081-1/50082-1 EMC directives)

Specification subject to change without notice.

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**TEMPATRON**

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