Tempatron          Tel: +44(0)1621 859500          Fax: +44(0)1621 855335

# F-Series Timers

The Tempatron F-series 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 a large choice of AC or DC power options. Time ranges from 1 second to 60 hours are available, adjustable through the calibrated front control knob, or these timers can be supplied for use with a remote potentiometer. Fixed time ranges can also be specified.

These timers offer many different timing functions together with accurate, long-term switching reliability and high current switching contacts.

The double pole or 3 pole changeover relay output contacts are isolated from the supply voltage and all timers (except TDD timers) have two LEDs to indicate both power and relay status.

## Models Available

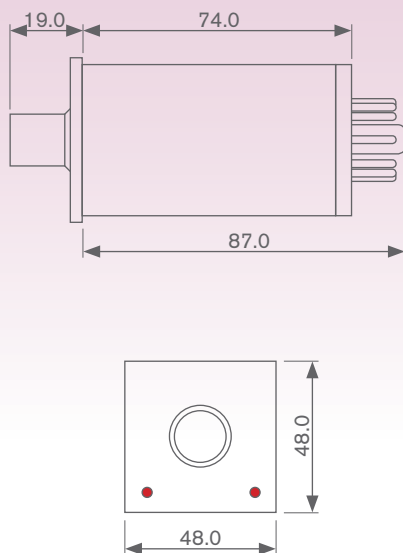**FB** Octal 8 Pin Timer (2 Pole)
**FT** 11 Pin Timer (2 Pole)
**F3T** 11 Pin Timer (3 Pole)

## Product Features

- Time ranges from 1 second to 60 hours
- Supply voltages from 12Vdc to 230Vac
- Octal 8 pin or 11 pin output
- Local or remote potentiometer options
- Fixed time range option
- Standard DIN48 square size
- Plug-in socket or panel mounting
- Panel fixing clamps available
- Plug-in sockets also available

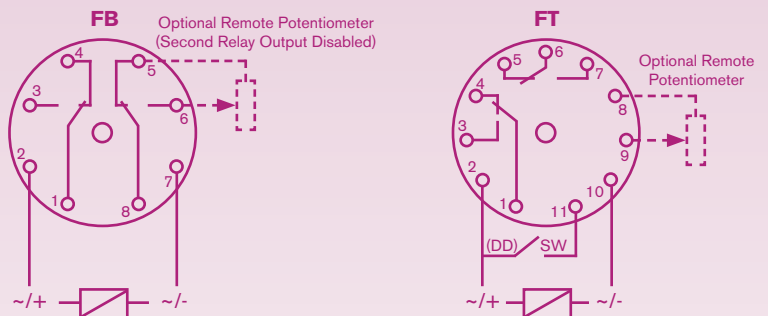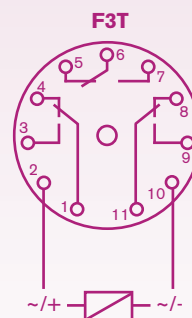## For timing control of machinery, systems and operational processes

### Dimensions

19.0    74.0

87.0

48.0

48.0

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

All dimensions in mm

### Connections

**FB**

Optional Remote Potentiometer (Second Relay Output Disabled)

~/+        ~/-

**FT**

Optional Remote Potentiometer

(DD)    SW

~/+        ~/-

FTDDP: SW across terminals 2 to 11
FTDDN: SW across terminals 10 to 11

**F3T**

~/+        ~/-

**View on pins**

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

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## Ordering information

| Model | Code | Description |
|---|---|---|
| | FB | Octal 8 Pin Timer (2 Pole) |
| | FT | 11 Pin Timer (2 Pole) |
| | F3T | 11 Pin Timer (3 Pole) |

| TIming Function | Code | Description |
|---|---|---|
| | DE | Delay on Energise |
| | DDP | Delay on De-Energise - Positive Enabled (FT only) |
| | DDN | Delay on De-Energise - Negative Enabled (FT only) |
| | INT | Interval |
| | TDD | True Delay on De-Energise (F3T N/A) |
| | DC | Delayed Cycling (F3T N/A) |
| | IC | Immediate Cycling (F3T N/A) |

| TIme Range (Twice for DC or IC Function) | Code | Description |
|---|---|---|
| | 1S | 0.05 to 1 second |
| | 2S | 0.1 to 2 seconds |
| | 5S | 0.25 to 5 seconds |
| | 10S | 0.5 to 10 seconds |
| | 30S | 1.5 to 30 seconds |
| | 60S | 3 to 60 seconds |
| | 2M | 0.1 to 2 minutes |
| | 5M | 0.25 to 5 minutes |
| | 10M | 0.5 to 10 minutes |
| | 30M | 1.5 to 30 minutes |
| | 60M | 3 to 60 minutes (N/A for DD & TDD) |
| | 2H | 0.1 to 2 hours (N/A for DD & TDD) |
| | 5H | 0.25 to 5 hours (N/A for DD & TDD) |
| | 10H | 0.5 to 10 hours (N/A for DD & TDD) |
| | 30H | 1.5 to 30 hours (N/A for DD & TDD) |
| | 60H | 3 to 60 hours (N/A for DD & TDD) |

| Potentiometer (Twice for DC or IC Function) | Code | Description |
|---|---|---|
| | LP | Local Potentiometer |
| | RP | Remote Potentiometer (N/A for F3T) |
| | FT | Factory Preset Fixed Time Range (specify) |

| Auxiliary Power | Code | Description |
|---|---|---|
| | 12VDC | 12Vdc (N/A for TDD) |
| | 24VDC | 24Vdc |
| | 110VAC | 110Vac |
| | 230VAC | 230Vac |
| | Other | Specify (subject to technical viability) |

| Options | Code | Description |
|---|---|---|
| | C1004 | Panel Fixing Clamps |
| | CDSR08 | Octal Rear Screw Panel Socket |
| | CDSR11 | 11 Pin Rear Screw Panel Socket |
| | S8P | Octal DIN Rail/Panel Mount Socket |
| | S11P | 11 Pin DIN Rail/Panel Mount Socket |

| Example | FBDE10SLP230VAC |
|---|---|

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## TEMPATRON

Tempatron Industrial Controls is a division of Eltime Ltd.

## Specification

**Repeat Accuracy:**
- ±1% at constant ambient (20ms min.)
- Setting accuracy ±5%

**Power Supply Voltage:**
- 24V, 50V, 110V, 230Vac (±15%)
- 12V, 24V, 48V, 100Vdc (±15%)

**Minimum Supply Time (TDD only):**
- (Tm+50)ms
  where Tm = full range in seconds
  (minimum 3 seconds)

**Burden:**
- 2W or 4VA (20VA for TDD)

**Frequency:**
- 50/60Hz

**Relay Output:**
- 2 or 3 pole changeover contacts

**Contact Rating:**
- 10A at 240Vac/30Vdc (resistive)
- TDD: 5A at 240Vac/30Vdc (resistive)

**Electrical Contact Life:**
- 500,000 operations at 10A
- 200,000 operations at 5A (TDD)

**Mechanical Contact Life:**
- 50 million operations at 10A
- 10 million operations at 5A (TDD)

**Reset Time:**
- 100ms approx. (200ms for DC)

**Operating Temperature:**
- -10ºC to 60ºC

**Enclosure Code:**
- Case IP40

**Weight:**
- 130g (TDD 150g)

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

Specification subject to change without notice.