electrodev
future technology today
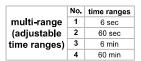
**T2M**

**T2D**

**R2U**

The **Electro 11 pin plug-in** range of control and timing devices are to be installed into a standard 11 pin base making installation easy and convenient.

• Compact DIN rail mounting:    *(H) 80 x (W) 35 x (D) 79 mm (3 modules wide)*

| multi-range (adjustable time ranges) | No. | time ranges |
|---|---|---|
| | 1 | 6 sec |
| | 2 | 60 sec |
| | 3 | 6 min |
| | 4 | 60 min |

| multi-function | No. | functions |
|---|---|---|
| | A | on-delay |
| | B | interval |
| | C | equal repeat |
| | D | interval *(pulse controlled)* |

| type | supply voltage★ | time range | function | description |
|---|---|---|---|---|

### Multi-range/multi-function timers - *(4 x selectable time ranges / 4 x selectable functions)*

Multi-function multi-range plug-in timers that includes all commonly used functions. Any change made to function or time range by means of front mounted dials will result in a reset of the unit.

| type | supply voltage | time range | function | description |
|---|---|---|---|---|
| T2M110A | 110 VAC | 1 - 4 | A - C | multi-range/function timer |
| T2M230A | 230 VAC | 1 - 4 | A - C | multi-range/function timer |
| T2M400A | 400 VAC | 1 - 4 | A - C | multi-range/function timer |
| T2M012AD | 12V ACDC | 1 - 4 | A - C | multi-range/function timer |
| T2M024AD | 24V ACDC | 1 - 4 | A - C | multi-range/function timer |
| T2M048AD | 48V ACDC | 1 - 4 | A - C | multi-range/function timer |
| T3M110A | 110 VAC | 1 - 4 | A - D | multi-range/function timer |
| T3M230A | 230 VAC | 1 - 4 | A - D | multi-range/function timer |
| T3M024AD | 24V ACDC | 1 - 4 | A - D | multi-range/function timer |

### True OFF delay on de-energisation timer   *(delay on removal of supply)*

Application of supply operates the relay. On removal of supply the pre-set time period begins, on lapse of time period the relay releases. If supply re-applied before relay releases the time period is reset and relay remains on until supply is removed again. Note: should not be operated by pulses shorter than 30 seconds.

| type | supply voltage | sec | function | description |
|---|---|---|---|---|
| T2D10S230A | 230 VAC | 10 | off delay | multi-range delay on de-energisation |
| T2D30S230A | 230 VAC | 30 | off delay | multi-range delay on de-energisation |
| T2D30S400A | 400 VAC | 30 | off delay | multi-range delay on de-energisation |
| T2D60S230A | 230 VAC | 60 | off delay | multi-range delay on de-energisation |
| T2D180S024AD | 24V ACDC | 180 | off delay | multi-range delay on de-energisation |
| T2D180S230A | 230 VAC | 180 | off delay | multi-range delay on de-energisation |
| T2D360S024AD | 24V ACDC | 360 | off delay | multi-range delay on de-energisation |
| T2D360S230A | 230 VAC | 360 | off delay | multi-range delay on de-energisation |

| type | supply voltage | min | function | description |
|---|---|---|---|---|
| T2D/B10M230A | 230 VAC | 10 | off delay | multi-range delay on de-energisation |
| T2D/B30M230A | 230 VAC | 30 | off delay | multi-range delay on de-energisation |
| T2D/B60M230A | 230 VAC | 60 | off delay | multi-range delay on de-energisation |
| T2D/B180M230A | 230 VAC | 180 | off delay | multi-range delay on de-energisation |

### Unequal repeating timer multi-range        *(for ON and OFF ranges)*

Asymmetrical recycler timer with two independently adjustable time ranges. On application of supply the relay operates for the pre-set "on" time, thereafter the relay releases for the separately pre-set "off" time. Cycle repeats until supply is removed. Cycle can be reversed *("off" time first)* by bridging terminals 7 and 9.

• Unequal repeating timer *(asymmetrical recycler independently adjustable ON time and OFF time)*

| Dip switch selectable: | ON: | 6sec, 60sec, 6min, 60min, 6 hr |
|---|---|---|
| | OFF: | 6sec, 60sec, 6min, 60min, 6 hr |

| type | supply voltage | time range | function | description |
|---|---|---|---|---|
| R2U110A | 110 VAC | – | repeat | unequal repeating timer |
| R2U230A | 230 VAC | – | repeat | unequal repeating timer |
| R2U400A | 400 VAC | – | repeat | unequal repeating timer |
| R2U012AD | 12V ACDC | – | repeat | unequal repeating timer |
| R2U024AD | 24V ACDC | – | repeat | unequal repeating timer |

★ *Other voltage options available on request.*

## Star-delta timer     multi-range *(for ON and OFF ranges)*

Applying supply switches relay to "star" for the pre-set star period, on lapse of the star period the relays switches to a neutral "transition" position (4-180 msec) where after the relay switches to the "delta" position and remains there until supply is removed.

| type | supply voltage* | time range | function | description |
|---|---|---|---|---|
| | | sec | | |
| TNE30S024AD | 24V ACDC | 30 | star delta | star delta timer |
| TNE30S110A | 110 VAC | 30 | star delta | star delta timer |
| TNE30S230A | 230 VAC | 30 | star delta | star delta timer |
| TNE30S400A | 400 VAC | 30 | star delta | star delta timer |
| TNE60S024AD | 24V ACDC | 60 | star delta | star delta timer |
| TNE60S230A | 230 VAC | 60 | star delta | star delta timer |
| TNE60S400A | 400 VAC | 60 | star delta | star delta timer |
| TNE180S230A | 230 VAC | 180 | star delta | star delta timer |

TNE

## Defrost timer     *(with fan delay)*

Configurable for 4-hour *(defrost cycle every 4 hours)* or 8 hour cycles. Application of supply starts the pre-select 1 - 60 min defrost cycle, thereafter the relay switches to the cooling cycle activating the pre-set 1-60sec fan delay period *(to prevent water splatter and warm air blowing into the room)*  and then starts the fan.

- Cycle:     4 or 8 hr
- Defrost:     3-60 min
- Fan:     3-60 sec

| type | supply voltage | time range | function | description |
|---|---|---|---|---|
| DEF1/F230A | 230 VAC | timer | – | defrost timer |

## Econo range timers

| type | supply voltage | time range | function | description |
|---|---|---|---|---|
| T10/10S230A | 230 VAC | 10 | on-delay | econo on-delay timer |
| T10/10S400A | 400 VAC | 10 | on-delay | econo on-delay timer |
| T10/30S230A | 230 VAC | 30 | on-delay | econo on-delay timer |
| T10/60S230A | 230 VAC | 60 | on-delay | econo on-delay timer |
| T10/180S024AD | 24V ACDC | 180 | on-delay | econo on-delay timer |
| T10/180S230A | 230 VAC | 180 | on-delay | econo on-delay timer |
| T10/360S024AD | 24V ACDC | 360 | on-delay | econo on-delay timer |
| T10/360S230A | 230 VAC | 360 | on-delay | econo on-delay timer |
| T10/360S400A | 400 VAC | 360 | on-delay | econo on-delay timer |
| T10/600S024AD | 24V ACDC | 600 | on-delay | econo on-delay timer |
| T10/600S230A | 230 VAC | 600 | on-delay | econo on-delay timer |
| T10/600S400A | 400 VAC | 600 | on-delay | econo on-delay timer |
| T10/600S525A | 525 VAC | 600 | on-delay | econo on-delay timer |
| T10/60M230A | 230 VAC | 60min | on-delay | econo on-delay timer |
| T1IP/30S024AD | 24V ACDC | 30 | interval | econo pulsed internal timer |
| T1IP/30S230A | 230 VAC | 30 | interval | econo pulsed internal timer |
| T1P/230A | 230 VAC | – | one-shot | econo impulse relay |
| PCT1/230A | 230 VAC | – | timer | econo percentage timer |
| PCT1/400A | 400 VAC | – | timer | econo percentage timer |
| FRT1/230A | 230 VAC | – | timer | econo forward/reverse timer |
| TP2/230A | 230 VAC | – | timer | econo two shot timer |
| SSF1/230MV | 95 - 240 VAC | – | timer | econo solid state flasher |

T10

* *Other voltage options available on request.*