

TFDRMU Digital Multifunction Timer User Manual





Please read this document carefully before using this product. The product guarantee will become invalidated by any damage to the timer caused by not following the instructions in the user manual. Tempatron do not accept any liability for personal injury, material damage or capital losses which may arise by not following the instructions in the user manual.

- 4 digit backlit LCD display digital timer
- 24 programmable timing modes
- 0-9999sec or 0-9999min time ranges
- 24 to 240Vac/dc powered
- 1 changeover and 1 N/O relay output
- · Easy to programme through front keys
- · Status and timing indicators
- EEPROM memory (minimum 10 years)
- IP20 enclosure code
- DIN rail mounting
- 2 module 36mm width
- Clear hinged tamperproof cover

TECHNICAL SPECIFICATION

ENVIRONMENTAL CONDITIONS

Operating/Storage Temperature: Protection Class: Installation Height: -5°C to +45°C / -10°C to +55°C IP20 Maximum 2000m

Do not use this timer in locations where corrosive or flammable gases could be present.

ELECTRICAL

Power Supply Voltage: Power Consumption (Burden): Frequency Wiring: Data Retention: CE Markings: 24 to 240Vac/dc <3VA 50/60Hz 2mm² screw type terminals EEPROM (minimum 10 years) EN 60947-5-1:2004+A1:2009, EN 60730-1:2012, EN 60730-2-7:2011+AC:2012, EN 61000-6-2:2005, EN 61000-6-4:2007+A1:2011, EN 61000-3-2:2014, EN 61000-3-3:2013

OUTPUTS

Relay Outputs (R1 & R2):

Relay Contact Life:

Reset Time: Accuracy:

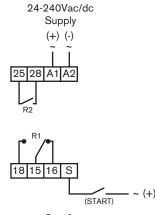
HOUSING

Housing Type: Display: Dimensions: Weight: Enclosure Materials: R1: Single pole changeover contact 8A rated at 240Vac (resistive load) R2: Single pole N/O contact 8A rated at 240Vac (resistive load) Mechanical 1,000,000 operations Electrical 100,000 operations 100ms approx. ±3sec/24hours

DIN rail mounting 2 module width Backlit LCD display 36mm wide x 90mm high x 65mm deep Approximately 140g (without packaging) Self extinguishing plastics

When cleaning the timer, solvents (thinners, gasoline, acid etc.) or corrosive materials must not be used.

WIRING CONNECTIONS

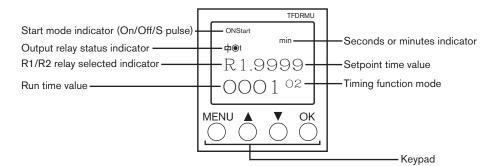






CE R⊛HS Compliant

FRONT PANEL DISPLAY FUNCTIONS



DISPLAY SYMBOLS

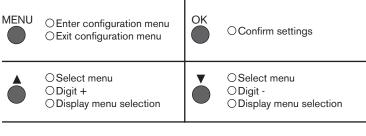
- ¢⊚ **Output Relay ON**
- 中〇 **Output Relay OFF**
- R 1 **Output Relay 1**
- R2 **Output Relay 2**
- **Parameter Setting** SET
- ONStart Starting with ON

OFFStart Starting with OFF

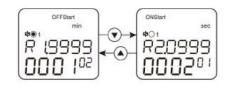
- Л Time Impulse release by rising edge
- l Time Impulse release by falling edge
- min Set time in minutes
- Set time in seconds sec
- Time Delay T Т
- Τ1 **Time Delay T1**
- T2 **Time Delay T2**
- Starting with S pulse start

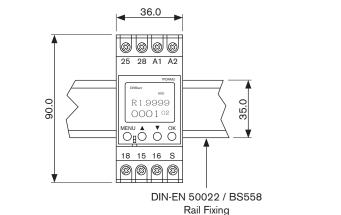
DIMENSIONS

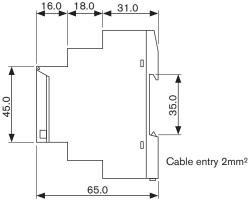




To check the status of R1/R2 output

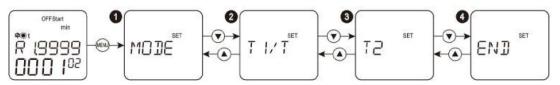






All dimensions in mm

MAIN MENU



0	MODE	Operating mode adjustment
0	T 1/T	T1/T time adjustment
3	51	T2 time adjustment
0	END	End setting

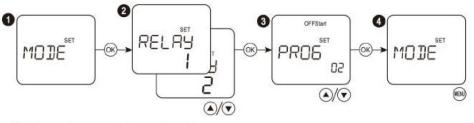
O Press the MENU key to enter the timer configuration menu, SET will then appear on the display.

 \bigcirc Use the \blacktriangle and \checkmark keys to choose the desired sub menu.

Olf no key is pressed for 2 minutes the timer will return to the main menu.

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OPERATION MODE SETTING



Select MODE and press the OK key.

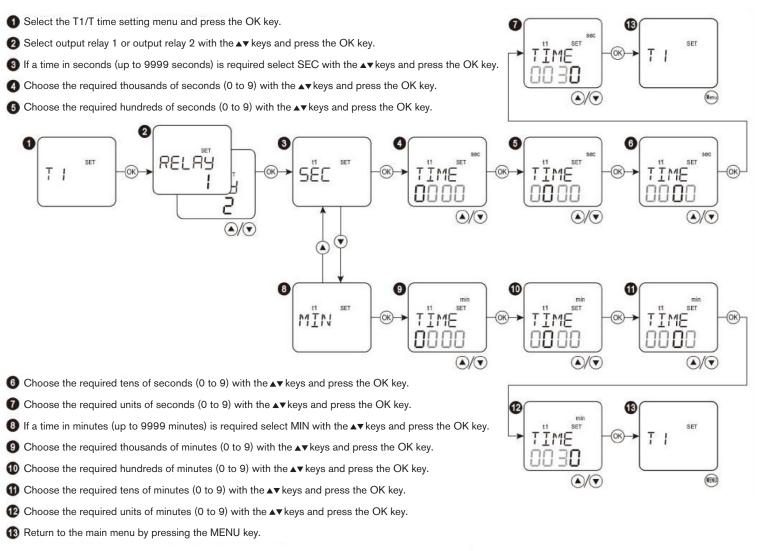
2 Select output relay 1 or output relay 2 with the ▲▼ keys and press the OK key.

(3) Choose the desired timing function mode (from 01 to 24, see pages 5-7 for the options) with the ▲▼keys and press the OK key.

A Return to the main menu by pressing the MENU key.

Note: Press A for longer than 0.5s to increase the numerical value more quickly and press V for longer than 0.5s to decrease the numerical value more quickly.

T1/T TIME DELAY SETTING

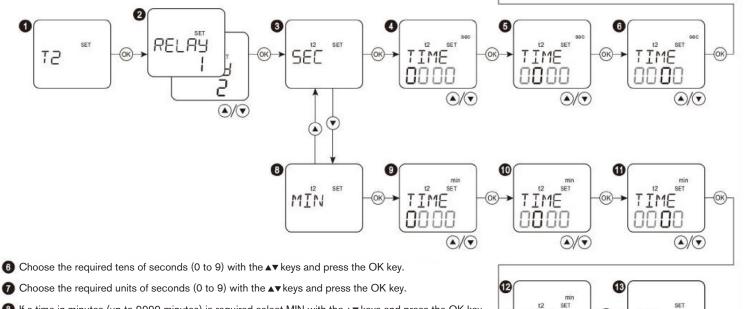


Note: Press A for longer than 0.5s to increase the numerical value more quickly and press V for longer than 0.5s to decrease the numerical value more quickly.



T2 TIME DELAY SETTING

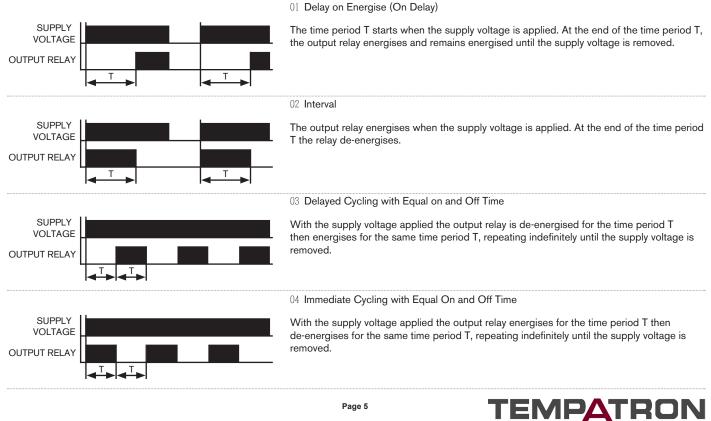
- Select the T2 time setting menu and press the OK key.
- 2 Select output relay 1 or output relay 2 with the ▲▼keys and press the OK key.
- If a time in seconds (up to 9999 seconds) is required select SEC with the ▲▼ keys and press the OK key.
- Ochoose the required thousands of seconds (0 to 9) with the ▲▼ keys and press the OK key.
- 6 Choose the required hundreds of seconds (0 to 9) with the ▲▼ keys and press the OK key.



- If a time in minutes (up to 9999 minutes) is required select MIN with the ▲▼ keys and press the OK key.
- Choose the required thousands of minutes (0 to 9) with the ▲▼ keys and press the OK key.
- O Choose the required hundreds of minutes (0 to 9) with the ▲▼ keys and press the OK key.
- O Choose the required tens of minutes (0 to 9) with the ▲▼ keys and press the OK key.
- Choose the required units of minutes (0 to 9) with the ▲▼ keys and press the OK key.
- 13 Return to the main menu by pressing the MENU key.

Note: Press A for longer than 0.5s to increase the numerical value more quickly and press V for longer than 0.5s to decrease the numerical value more quickly.

TIMING FUNCTION MODES





t2 SET

TIME

-

(OK

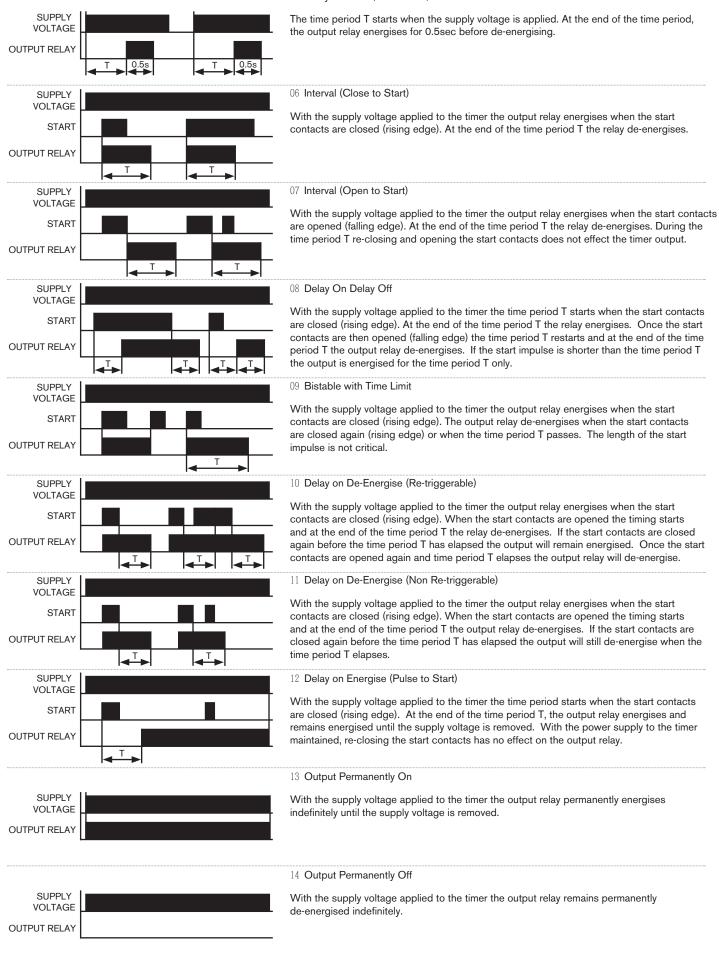
SET

MENU

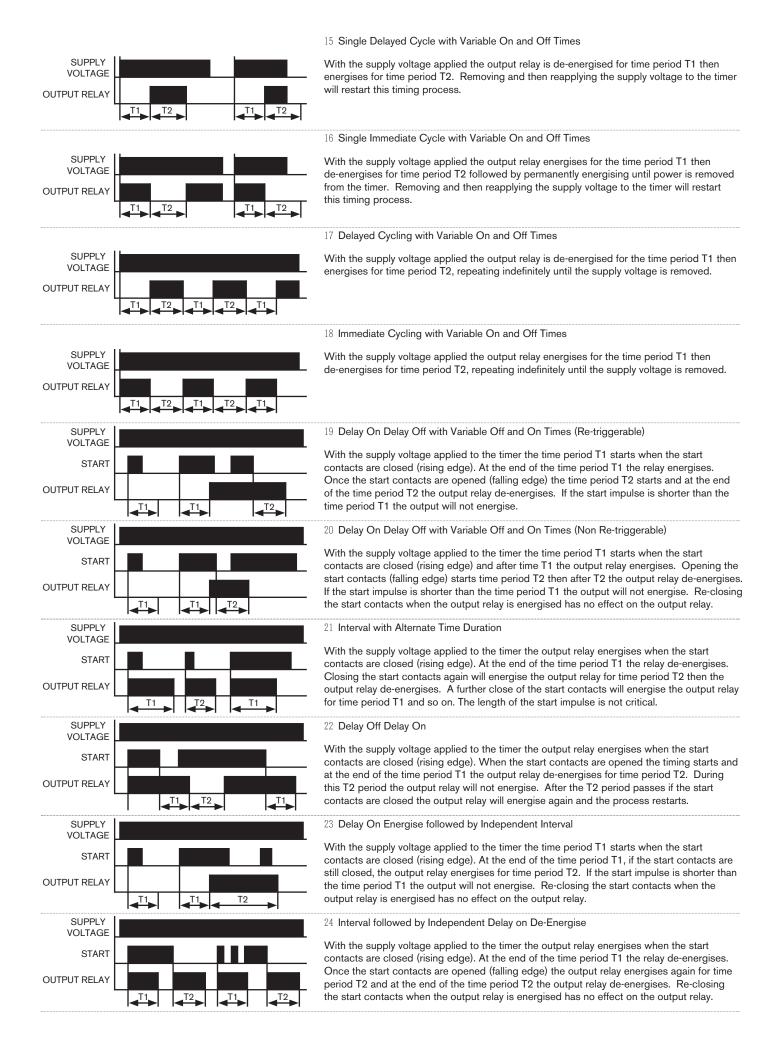
(MENU)

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05 Delayed Pulse (0.5 second)



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Tempatron: Eltime House, Hall Road, Maldon, Essex, CM9 4NF UK.

Telephone: +44(0)1621 859500 Fax: +44(0)1621 855335 Email: sales@tempatron.co.uk Web: www.tempatron.co.uk



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