**OPERATING MANUAL**
**UNIVERSAL TIMER**
**UTR - 1244/2244/4244**

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**Notes:**

1. For safely purpose, key function are designed in such a way that operator will not go into detailed parameter setting (Previously Set) function. In this situation, in LOCK parameter, YES has to be selected. If previously set parameters are to be changed, then have to operator has to select NO.

2. In FRT Mode Parameter Frtm, sttm, Rutm Display.

3. IN combination Mode, Parameter D1C1, R1C1, D2C1, R2C1, Mem Display.

4. In Cycling Mode, parameter UNT-1, UNT-2 TIME & MEMO will be displayed.

5. POWER ON (): Timer starts counting as soon as it gets power supply.

6. By default ON delay Mode is provided. Please refer programming guide to change to OFF delay or Cycling Mode.

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**WORKING**

1. Turn ON instrument. SET time according to your requirement.

2. In running mode, upper display indicates current TIME value and lower display shows SET time value. Relay ON or OFF controls depends on set time.

3. Relay operation is according to selection of Delay ON or Delay OFF in programming menu.

4. In cycling mode, relay will turn on for ON time (time-1) & relay will turn off for OFF time (time-2) and this ON-OFF process will continue.

5. To reset the time, press Reset Key.
Press Set + Power on for 2 second. 3 Program mode will open

Program 1  Frt (Forward reverse Timer)
Program 2  Comb (Combination Timer)
Program 3  Cyl (Cycle Timer)
Program 4  Sqr (Sequential Timer)

Press by and Power on to select Program
**MENU-1**

**COMB MODE**

Press \(\boldsymbol{\Downarrow}\) & \(\text{key}\) for set time

Process Value

\[
1 \quad 2 \quad 3 \quad 4
\]

Set Value

\[
1 \quad 2 \quad 3 \quad 4
\]

**Press Set key for 2 Sec**

\[
d \quad 1 \quad C \quad 1
\]

(Delay time for Relay-1 & Cycle-1)

**Press SET key for 2 Sec**

\[
r \quad 1 \quad C \quad 1
\]

(Relay On time for Relay-1 & Cycle-1)

**Press SET key for 2 Sec**

\[
d \quad 2 \quad C \quad 1
\]

(Delay time for Relay-2 & Cycle-1)

**Press SET key for 2 Sec**

\[
r \quad 2 \quad C \quad 1
\]

(Relay On time for Relay-2 & Cycle-1)

**Press SET key for 2 Sec**

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**MENU-2**

Press Both Key

\[
\text{key} + \text{key}
\]

...... Display show cycle of 1st relay

Change cycle by \(\text{key}\) key

Than Press \(\text{key}\) to save cycle

Press \(\text{key}\) Key for next.

Select Range for \(\text{key}\) key .

Press \(\text{key}\) key for next parameter.

Repeat for 2 Relay.

...... Display show cycle of 1st relay

Change cycle by \(\text{key}\) key

Than Press \(\text{key}\) to save cycle

Select Range for \(\text{key}\) key .

Press \(\text{key}\) for save and exit.
To Select No. Of Cycles.
IF 0 Selected instrument will go in infinite loop

Press $ key to 2 Sec.

To Keep Memory Select ‘YES’

Press $ key to 2 Sec.

Type Of Input For Start Pulse Can Be Selected

Press $ key to Exit
100 ~ 250V AC
50/60 Hz
4VA

L
N
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

RELAY-1
RELAY-2

PNP PROXI:- Short Pins 14 & 13
Proxi Connection to 16,15 & 14
PNP PROXI:- Short Pins 16 & 15
Proxi Connection to 15,14 & 13
MICRO SWITCH:- Short Pins 14 & 13
M/S Connection 16 & 15

RELAY-1
RELAY-2

PNP PROXI:- Short Pins 5 & 6
Proxi Connection to 3, 4 & 5
PNP PROXI:- Short Pins 3 & 4
Proxi Connection to 4, 5 & 6
MICRO SWITCH:- Short Pins 5 & 6
M/S Connection 3 & 4

RELAY-1
RELAY-2

RELAY-1
RELAY-2

RELAY-1
RELAY-2

RELAY-1
RELAY-2

RELAY-1
RELAY-2

RELAY-1
RELAY-2

RELAY-1
RELAY-2

RELAY-1
RELAY-2

RELAY-1
RELAY-2
<table>
<thead>
<tr>
<th>SR.</th>
<th>DISPLAY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Time-1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Time-2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Lock Parameter</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>All Parameter Locked</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>All Parameter allowed to set</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Delayed function</td>
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<tr>
<td>7</td>
<td>Cycling time</td>
<td></td>
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<td>8</td>
<td>Cycle strat from Relay 1</td>
<td></td>
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<tr>
<td>9</td>
<td>Cycle strat from Relay 2</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Delayed ON</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Delayed OFF</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Unit - 1 for Time - 1</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Unit - 2 for Time - 2</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Seconds set for Time - 1 or 2</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Minute set for Time - 1 or 2</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Hour set for Time - 1 or 2</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Direction of time counting</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Up counting</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Down counting</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Memory Retain : Yes / No</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Enable/ Trigger/ Power ON</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Delay time for Relay-1 &amp; Cycle-1</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Relay on time for Relay-1 &amp; Cycle-1</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Delay time for Relay-2 &amp; Cycle-1</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Relay on time for Relay-2 &amp; Cycle-1</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>No. Of Cycles</td>
<td></td>
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</table>