Vendor's Guide

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PTC-14
Programmable Timing Controller
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**WARNING:** These products are not designed for use in, and should not be used for, human applications.
PTC-14 Programmable Timing Controller

FRONT PANEL FUNCTIONS

- **PRG**
  - Mute
  - Accesses set points (Set1 & Set2) when pressed momentarily. Accesses Password (PASS) when pressed for >4 secs. Steps through program functions after password entry. Cancels output buzzer (BEEP) when activated but does not reset the timer.

- **SEL**
  - Rst
  - Reinitializes the timer when pressed momentarily if *u on* or *t on* reset options have been selected. Enables adjustment of each digit using the A and V buttons when pressed after password entry.

- **Enable**
  - Enables set point 1 (Set1) to be viewed when pressed momentarily. Increments a parameter value or program option if used after PRG and SEL buttons.

- **Disable**
  - Enables set point 2 (Set2) to be viewed when pressed momentarily. Decrements a parameter value or program option if used after PRG and SEL buttons.

WIRING DIAGRAM

![Wiring Diagram](image)

REAR PANEL FUNCTIONS

- **Hold**
  - Halts timing for as long as the hold input is connected to 0V. Timing re-starts from previous value when hold is released.

- **Reset/start**
  - Resets or starts the timer according to the rSet parameter setting.

- **3V Battery**
  - Provides battery back up to maintain the 24 hour clock during power failure.
### PROGRAM PARAMETERS

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<tr>
<td></td>
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<td></td>
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</tr>
<tr>
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<td></td>
<td></td>
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<tr>
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<td></td>
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<tr>
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<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>deE: Independent On-Delay + Interval</td>
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<tr>
<td></td>
<td></td>
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<td>Timing Range selection</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
PROGRAM PARAMETER MAP

To momentarily view Set points press [sel] for SET 1
or [sel] for SET 2

Press [set 1]
Displays value with last (right) digit flashing
Press [sel] or [sel] until correct value, then press [set 1]

Repeat previous step for next two digits, then press [set 1]

For dual Timer options
Displays SET 2
Repeat as for SET 1

Times out to value of SET 1 & OFF 1 when
Press [set 1] or switch supply off then on.

Timing starts from 0 or reinit

To momentarily view 24H mode on 1 & off 1
settings press and hold [set 1]

Alternately displays on 1 & off 1
Press [set 1]
Displays 0000 with red (left) digit flashing
Press [sel] or [sel] until correct time, then press [set 1]
Repeat until correct

Press [set 1]
Displays 01-1
Press [set 1]
Displays 00.00 with red (left) digit flashing
Press [set 1] or [set 1] until correct time, then press [set 1]
Repeat until correct

Press [set 1]
Displays 3232 with red (left) digit flashing
Press [set 1] or [set 1] until correct time, then press [set 1]
Repeat until correct

Press [set 1]
Displays End
Switch supply off, then on, to start timing.

Note: These routines apply to programming from default values. Once another set up has been programmed, parameters will start from the previous settings.
PROGRAMMING PROCEDURE

The operating parameters and range should be set before adjusting the set time.
1. Press and hold the PRG button for > 4 secs and the display will show PASS (if a password >0 has been set). Press SEL and use the ▲ and ▼ buttons to enter each digit of the password. Use SEL to move between password digits. When complete press PRG to access the program functions. NOTE: if no password is set (PASS=0) the display will go directly to the first program parameter (Mode).
2. Press SEL followed by the ▲ or ▼ buttons to change program parameters. Press PRG to store the changes and move to the next parameter. Refer to the parameter map for programming details.
3. End will be displayed when the program routine is complete. The power must now be removed and reconnected to re start the timer.

ADJUSTING SET TIME

1. Momentarily press the PRG button and the display will show set time 1 (SET1).
2. Press SEL and use the ▲ and ▼ buttons to enter the required set time, one digit at a time. Use SET to move between digits.
3. Press PRG to display set time 2 (SET2) if selected. If a single time mode is selected (de_1 or dp_1) then the display will return to normal timer operation.
4. Repeat step 2 to set time 2.
5. Press PRG to return to normal timer operation.

The same procedure is used to set the 24 hour clock time (CLOC) and the on and off times (on_1, OFF1, on_2, OFF2).

NOTES

1. The RST button can only be used to start the timer if the RSET modes u on or t on are selected.
2. RSET mode u on will allow the timer to re start at any point in the time cycle but t on will allow re start only after the current timing cycle is finished.
3. RSET modes Euton and Eton have the same function as u on and t on but they are actioned by contact across terminals T and 8.
4. If the buzzer sounds during set point adjustment, the set point routine must be exited before the buzzer can be silenced using the PRG/mute button.
5. When the program routine has been accessed timing stops and resets and all outputs are deenergised. Timing continues during set time adjustment but the new times will only take effect when the timer is next started.
6. The buzzer sounds when Time 1 has elapsed if the beep on option has been selected (not dd_2 mode).
7. For the 24 hour clock battery back up to function correctly, the battery must be connected after the main power supply is switched on.
8. All time settings and mode settings are stored in EEPROM memory and are retained when the unit is powered down.

DIMENSIONS

![Dimensions Diagram]

Panel cut-out 2.795 x 1.142 (71 x 29)

All dimensions in inches (mm)
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2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

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