

## Programmable Timer CE

### TECHNICAL SPECIFICATION

#### DIMENSION:

##### TMR-912

Size (mm)	96 (H) x 96 (W) x 50 (D) mm
Panel Cutout	92 (H) x 92 (W) mm

##### TMR-712

Size (mm)	72 (H) x 72 (W) x 50 (D) mm
Panel Cutout	68 (H) x 68 (W) mm

##### TMR-412

Size (mm)	48 (H) x 48 (W) x 50 (D) mm
Panel Cutout	44 (H) x 44 (W) mm

#### DISPLAY:

Display	4 Digit, Two Line, 7 Segment LED, 0.8 inch in TMR-912 (Upper Display),
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#### INPUT SPECIFICATION:

Input	Micro Switch
Range	9.999/999.9/99.59/9999 (Sec/Min/Hour)

#### OUTPUT SPECIFICATION:

Relay	1 Nos
Changeover	2C/O (NO-C-NC)
Rating	5A (Resistive Load)

#### POWER SUPPLY:

Supply Voltage	100V to 270V AC, 50-60Hz
Power Consumption (VA Rating)	<4VA

#### ENVIRONMENT CONDITION:

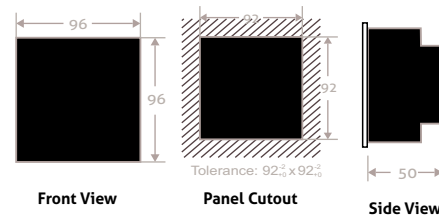
Operating Temp.	0°C to 55°C
Relative Humidity	UP to 95% RH (non-condensing)
Protection Level (As per request)	IP-65 (Front side) As per IS/IEC 60529 : 2001

#### KEY OPERATIONS

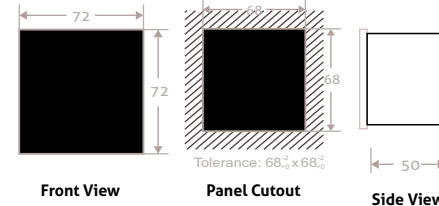
Key	Function
	<b>SET Key</b> (Long Press to Enter Set Point Menu)
	<b>Shift Key</b> (To shift the decimal value)
	<b>UP Key</b> (To increase the value)
	<b>Reset Key</b> (To Reset the Process Count)

#### MECHANICAL DIMENSIONS

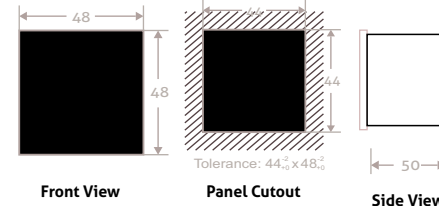
##### Dimensions for TMR-912



##### Dimensions for TMR-712



##### Dimensions for TMR-412



#### INSTALLATION

##### For installing the meter

1. Prepare the panel cutout with proper dimensions as shown above.
2. Push the meter into the panel cutout. Secure the meter in its place by fitting the clamp on the rear side. Fit the clamps on both the sides in diagonally opposite location for optimum fitting.
3. For proper sealing, tighten the screws evenly with required torque.

##### Terminal screw tightening torque:

0.68 Nm to 0.79 Nm (6.018In-Lb to 6.992 In-Lb)  
Screw clamp tightening torque: 0.1N-m (0.885 Lb-inch)

##### SAFETY PRECAUTIONS :

All safety related conditions, symbols and instruction that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

- ◆ Do not use the equipment if there is any mechanical damage
- ◆ Ensure that the equipment is supplied with correct voltage

If there is physical damage to the unit then do not use it.

Read complete instruction prior to installation and operation of the unit.

#### Wiring Guidelines:

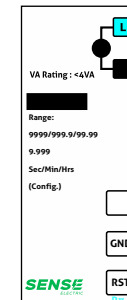
##### CAUTION :

- 1) To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement.
- 2) Wiring shall be done strictly accordingly to the terminal layout with the shortest connection. Confirm that all connection are correct.

#### TERMINAL CONNECTION



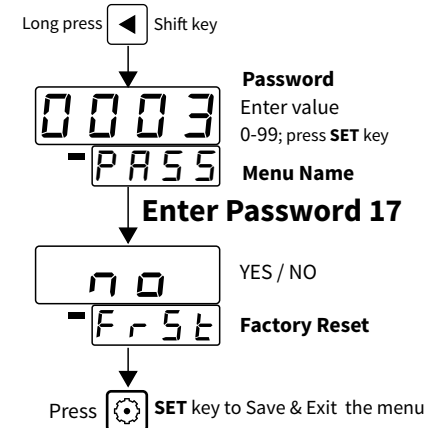
##### TMR 912




##### TMR 712

##### TMR 412


#### FACTORY RESET MENU

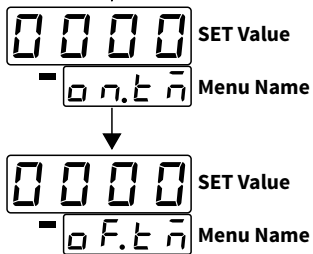


Long press  SET key to enter Set Point Menu



Using up & shift key to change SET point  
Press the SET key it will store the latest SET Value

Long press  SET key to enter Set Point Menu



Using up & shift key to change SET point  
Press the SET key it will store the latest SET Value


Long press  RESET Key to exit the menu

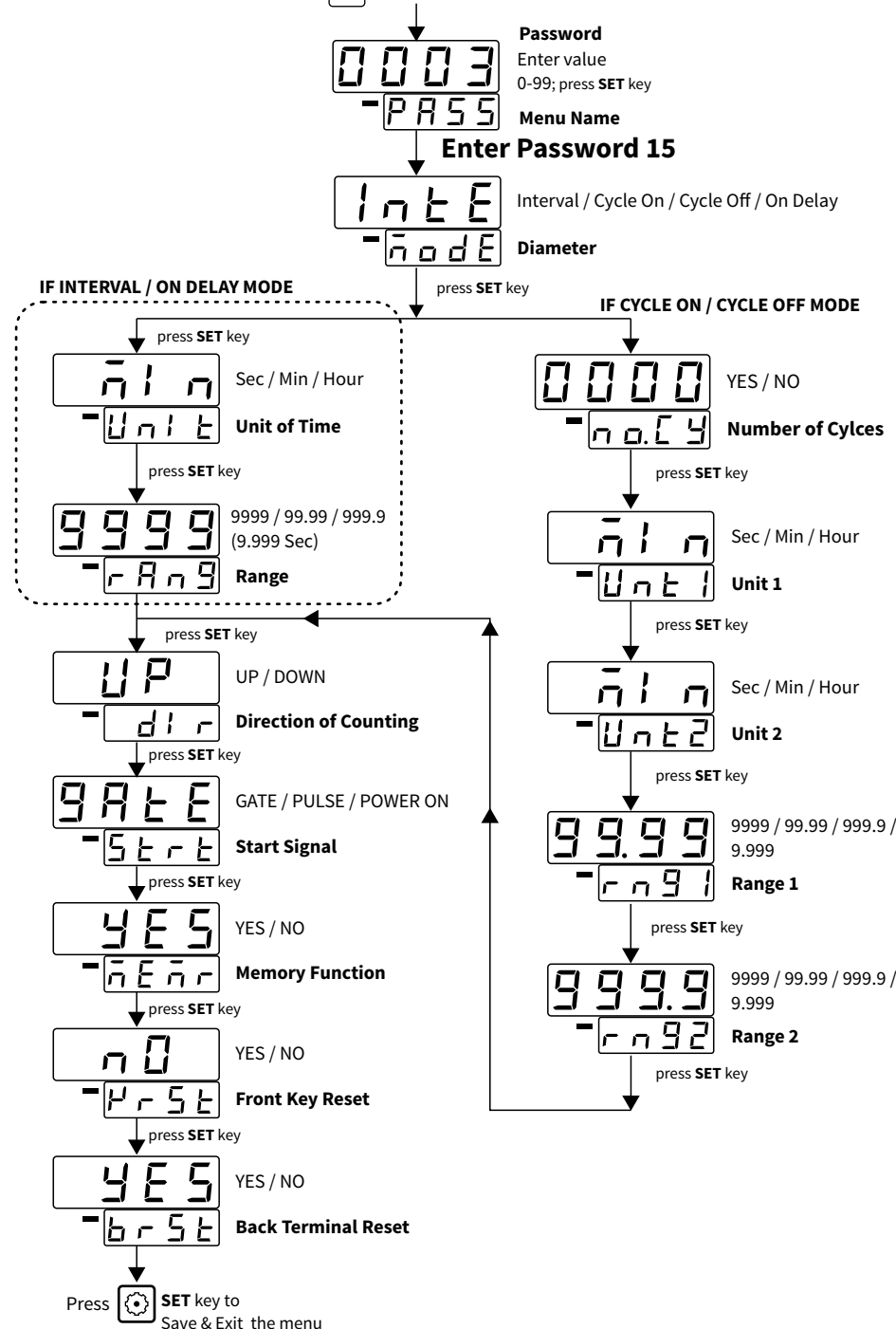
**\*Note:** If the instrument stays in idle condition while inside the **Configuration Menu** for more than **30 seconds**, then it will automatically exit the configuration menu.

**\*Installation Note:**

It is advised that the settings should be done by a professional, after going through user operating manual and after having understood the application.

**WORKING OF TIMER**

Long press  key to enter the parameter setting menu



**WORKING OF TIMER**

- ◆ Turn on the instrument. **SET TIME** according to your needs.
- ◆ In operating mode, the upper display indicates the current TIME value, while the lower display shows the SET time value. The relay ON/OFF controls are determined by the time set.
- ◆ Relay operation is determined by the selection of Delay ON or Delay OFF in the programming menu.
- ◆ In cycling mode, the relay will switch on during ON time (time-1) and off for OFF time.
- ◆ To reset the time, hit the Reset Key.

**WORKING OF TIMER**

- ◆ To ensure safety, important functions are password protected, in such a way that the operator does not get into important parameter setting
- ◆ In Cycling Mode, the parameters Unit 1, Unit 2 time, and Memory will be presented.
- ◆ In Power ON start signal the TIMER begins counting as soon as it receives power.
- ◆ The TIMER comes with default **Interval mode**. Please refer to the programming guide to switch to ON Delay or Cyclic Mode.


**Designed & Manufactured in India**


Product up-gradation is a continuous process. Hence, data in this manual is subject to change without prior notice.

For latest information, please get in touch with our Sales Office.



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