

Etsilon



Multifunction Timer PTR742

Features

- ▶ 3+3 digit, single set point
- ▶ LED indications - Relay ON, hr, min, sec
- ▶ Relay modes - ON delay, Interval, Cyclic ON first, Cyclic OFF first
- ▶ Multifunction, multi-range timer
- ▶ 72 x 72mm size
- ▶ Direction- Up / down selectable

INDEX

CONTENTS

Page No.

A) SAFETY PRECAUTIONS

| | |
|------------------------|----|
| SAFETY SUMMARY..... | 03 |
| LOAD CONNECTION..... | 03 |
| MODE OF OPERATION..... | 03 |

B) OVERVIEW

| | |
|------------------------------|----|
| SPECIFICATIONS..... | 04 |
| FRONT PANEL DESCRIPTION..... | 04 |
| MECHANICAL INSTALLATION..... | 05 |

C) TERMINAL CONNECTION.....05

D) PROGRAMMING

| | |
|--------------------------------|----|
| PROTECTION LEVEL..... | 06 |
| CONFIGURATION INSTRUCTION..... | 06 |
| TO PROGRAM SET VALUE..... | 07 |

A) SAFETY PRECAUTIONS

⚠ SAFETY SUMMARY

Please maintain these instructions and review them prior to using the unit:

⚠ INSTALLATION GUIDELINES:

1. This unit is panel mounted type with its output terminals connecting to the host equipment. Such equipment shall also comply with basic EMI/EMC and safety requirements like BS EN 61326-1 and BS EN 61010 respectively.
2. To avoid electric shock, power supply of the unit should be kept off while wiring. Wiring should be done strictly as per the terminal layout, given in the manual.
3. Use lugged terminals to meet M3 screws.

⚠ CAUTION:

1. This unit is not intended for outdoor use.
2. The power connection cable must have a cross-section of at least 1sq.mm and insulation capacity of at least 1.5kV.
3. The output connections must not be loaded beyond the specified values/range.
4. Avoid inflow of dust and contact of conductive material with the internal circuitry of the unit.
5. The unit must not operate in presence of heating sources, caustic vapors, oil, steam, vibration or impact etc.
6. Use clean moist cloth soaked in water for cleaning. Avoid entry of water into the circuitry through the ventilation holes.

LOAD CONNECTION

| For load current less than 0.5A | For bigger loads, use interposing relay/contactors |
|---------------------------------|----------------------------------------------------|
| | |

MODE OF OPERATION

| | |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|
| <p>1.On delay, Interval modes:</p> | <p>2.Cyclic ON first, Cyclic OFF first modes:</p> |
| <p>Typical application of Continuous start and reset in On delay mode:</p> | <p>Typical application of Gate start :</p> |

USER GUIDE

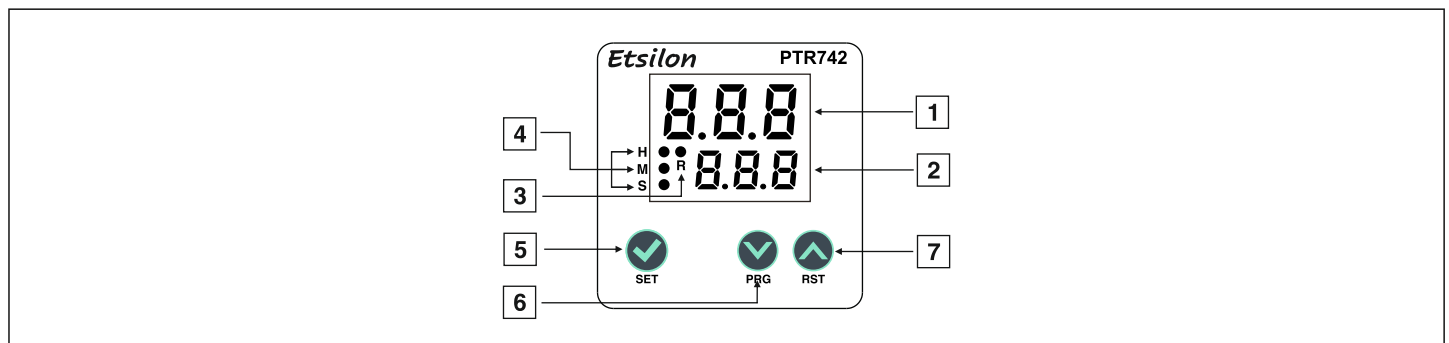
| USER GUIDE | START: Pulse / Gate |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| A) Pulse: Timing starts on momentary closure of switch Connected between START and COMMON terminals. B) Gate: Timing starts at power ON. When START & COMMON is closed timing freezes and it resumes only when the shorting is opened. | |

B) OVERVIEW

SPECIFICATIONS

| | |
|------------------|-----------------------------------------------------------------------------------------------------------|
| Display | Dual LED (3+3) digit, 0.56"+ 0.40" height, 7 segment. |
| Supply | 90 to 270V AC/DC, 50/60 Hz, 5VA max |
| Operating modes | On delay, Interval, Cyclic On first, Cyclic Off first |
| Time ranges | 9.99/99.9/999 sec, 9.59 min: sec, 99.9/999 min, 9.59 hour: min, 99.9/999 hour |
| Direction | Down / Up |
| Set point | Single set point |
| Relay rating | 5A @250V AC / 24V DC, Resistive |
| Start input | Pulse, Gate (programmable) |
| Reset | On interruption of power (selectable), front panel reset & terminal reset |
| Outputs | 2 Relay (SPDT) |
| LED indication | Relay timer indication |
| Memory retention | 10 years |
| Accuracy | Setting: $\pm 0.05\%$ of set time or 50 msec (whichever is greater) Repeat: $\pm 0.05\%$ |
| Temperature | Operating: 0 °C to 50 °C, Storage: -20 °C to 75 °C |
| Humidity | 95% RH (non condensing) |
| Housing | PC trans black |
| Mounting | Panel mount |
| Weight | 165gm |

FRONT PANEL DESCRIPTION



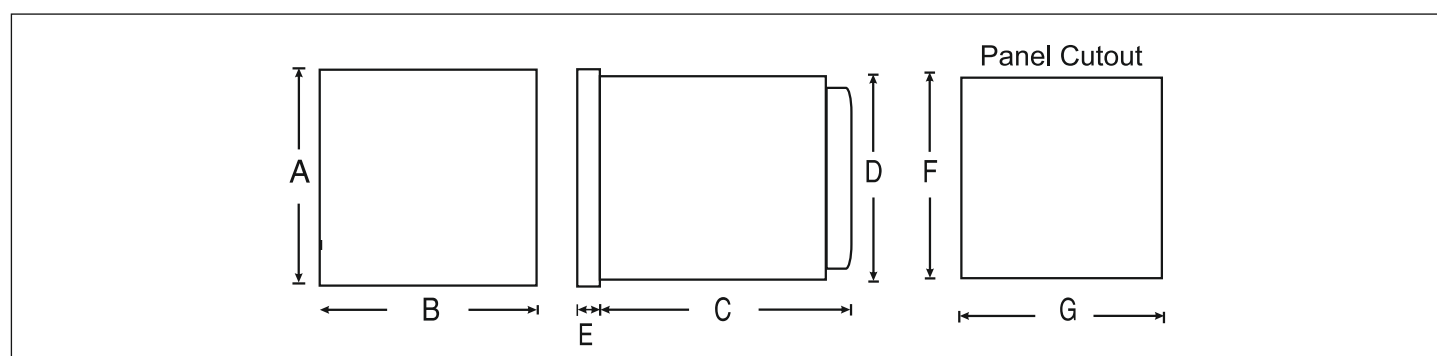
| | |
|---|-----------------------------------------|
| 1 | Process time |
| 2 | Set time |
| 3 | Output status (light when output is ON) |
| 4 | Time range (blink in online mode) |
| 5 | To set process time |
| 6 | Configuration mode |
| 7 | For reset |

MECHANICAL INSTALLATION

PRODUCT CODE

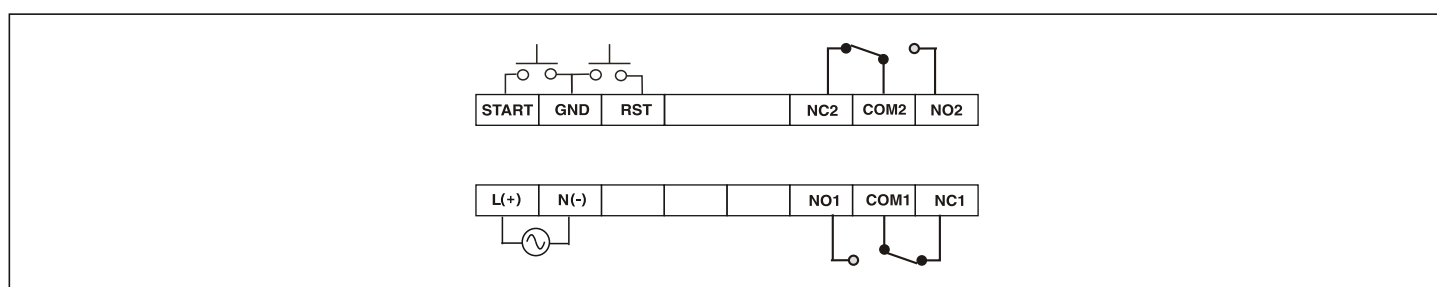
| MODELS | DIGITS | BEZEL SIZE(mm) |
|--------|--------|----------------|
| PTR742 | 3 | 72 x 72 |

OVERALL DIMENSIONS (All dimensions in mm)



| MODELS | DIM | A | B | C | D | E | F | G |
|--------|-----|----|----|----|----|---|----|----|
| PTR742 | | 76 | 76 | 44 | 67 | 4 | 69 | 69 |

C) TERMINAL CONNECTION



RESET METHOD

Reset

➡

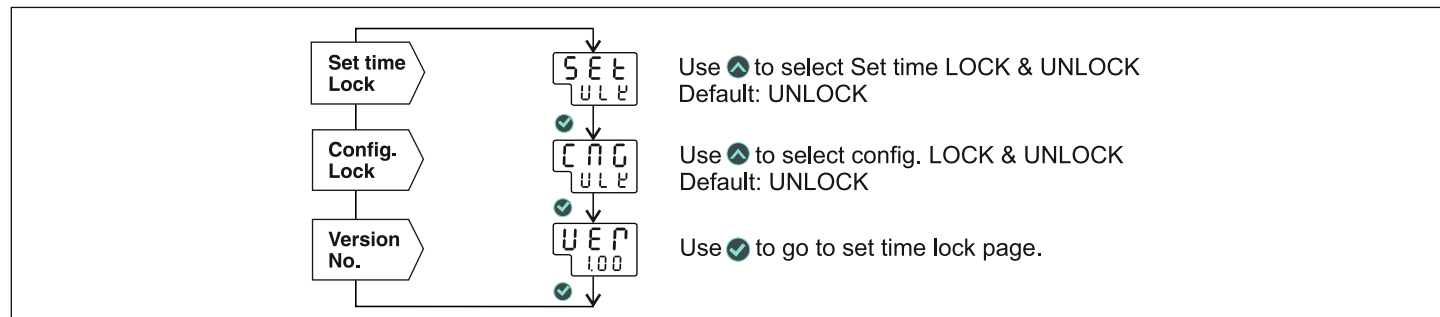
7 5 6
 d n e

Press (RST) key continuously for 3sec. to reset the unit.

D) PROGRAMMING

PROTECTION LEVEL

NOTE: Press + together continuously for 3sec. to enter into protection level.



| Description | Display | Default value | Range |
|---------------|------------|---------------|---------------|
| Set time Lock | SEt ULk | UNLOCK | LOCK / UNLOCK |
| Config. Lock | CnG ULk | UNLOCK | LOCK / UNLOCK |

The unit will auto exit lock mode after 30sec. of key inactivity or by pressing + keys together continuously for 3 sec to exit the function.

CONFIGURATION INSTRUCTION



1. Enter configuration by pressing key for 3 sec.
2. Scroll various function ranges by pressing & key.
3. Scroll various parameter by pressing the key.

The unit will auto exit program mode after 30sec. of key inactivity or by pressing (PROG) key continuously for 3sec.









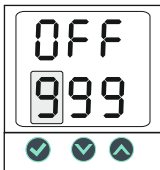

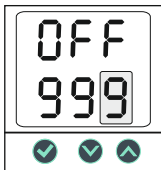

| MODE | DISPLAY | DISCRIPTION |
|-------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Modes | LCk 000 n0d 0n | Prompt only if configuration Lock enabled in PROTECTION LEVEL Lock code = 85 [fixed] Use & keys to select various modes ON delay, Interval, Cyclic ON first, Cyclic OFF first Default: ON delay |
| Time Range | n - S 99.9 0n 99.9 OFF 99.9 | This parameter prompted only in ON delay & Interval mode. Default: 99.9s This parameter prompted only in Cyclic mode Default: For ON time-99.9s For OFF time-9.99s |
| Direction | dip dun | Use & keys to select direction Up or Down Default: Down |
| Start | SEt GAt | Use & keys to select gate or pulse. Default: Gate |
| Front panel reset | FPP YES | Use & keys to select yes or no Default: Yes |
| Power on reset | POn n0 | Use & keys to select yes or no Default: No |
| Default | dFt n0 | Use & keys to select yes or no Default: No |

TO PROGRAM SET VALUE

Note 1: Press  key continuous for 3 sec to edit the set value.

Note 2: The corresponding digit will increment or decrement from 0 to 9 using  &  key respectively.

Note 3: Press  key to shift the digit.

| | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|
| Only if mode selected is on delay / Interval | | | | | |
| Set 1st digit |  | Set 2nd digit |  | Set 3rd digit |  |
| Note: Press  key continuous for 3 sec to exit set value function. | | | | | |
| Only if mode selected is cyclic | | | | | |
| Set 1st digit |  | Set 2nd digit |  | Set 3rd digit |  |
| Note: Press  key continuous for 3 sec to store the on time value and move to next parameter that is off time value. | | | | | |
| Set 1st digit |  | Set 2nd digit |  | Set 3rd digit |  |
| Note: <ol style="list-style-type: none"> 1) Press  key continuous for 3 sec to exit set value function. 2) If the set value is 000 then timer must hold (not work). & all indications will be OFF. 3) The unit will auto exit set value mode after 30 sec of key in activity. | | | | | |

Etsilon

Factory Address : EL-27/1, Electronic Zone, TTC Industrial Area, MIDC, Mahape, Navi Mumbai - 400710, India.

Website : www.etsilon.com | **Customer Care No.** 7304413724 | **Email :** support@etsilon.com

For Service : **Tel. No. :** 9136977317 | **Email :** service@etsilon.com