

# Etsilon



Thumbwheel  
Timer

**TTR735**

## Features

- ▶ 3 digit, 7 segment LED timer
- ▶ Single set point
- ▶ On delay / Interval
- ▶ CE certified
- ▶ 2 Relay (SPDT)
- ▶ Size 48 x 48mm
- ▶ 7 Time ranges
- ▶ Direction-Down

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## A) SAFETY PRECAUTIONS

### ⚠ SAFETY SUMMARY

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

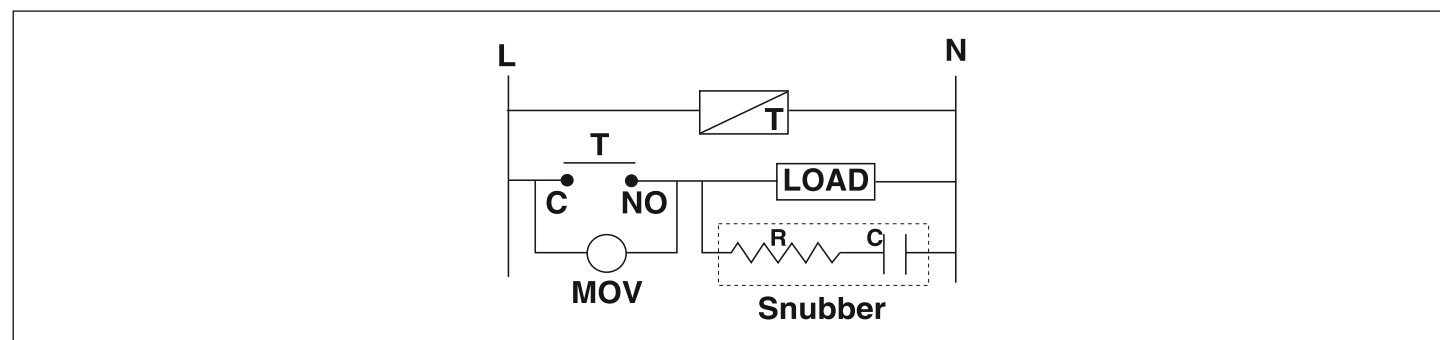
### ⚠ INSTALLATION GUIDELINES:

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 IEC 61326-1 and IEC 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



1) Snubber Part No: APRC-01.

2) MOV Part No: AP-MOV-03.

**Note:** For inductive loads, use of snubber and MOV, as shown above, is recommended.

## B) OVERVIEW

### SPECIFICATIONS

|                |                                                        |
|----------------|--------------------------------------------------------|
| Display        | 3 Digits, 0.36" height, White 7 segment LED            |
| Set point      | Single set point                                       |
| Supply         | 90 to 270V AC/DC, AC: 50/60 Hz, 5VA Max                |
| Delay modes    | On delay / Interval                                    |
| Time ranges    | 9.99, 99.9, 999 sec, 99.9, 999 min, 99.9, 999 hr       |
| Time setting   | By push wheel switches                                 |
| Accuracy       | ±0.05% or 50msec (whichever is greater)                |
| Start input    | Pulse start                                            |
| Reset          | Front panel reset, Remote reset, On power interruption |
| Reset time     | Less than 100msec                                      |
| Direction      | Down                                                   |
| Led indication | Relay status                                           |
| Output         | 2 Relay (SPDT)                                         |
| Relay rating   | 5A @250V AC/24V DC, Resistive                          |

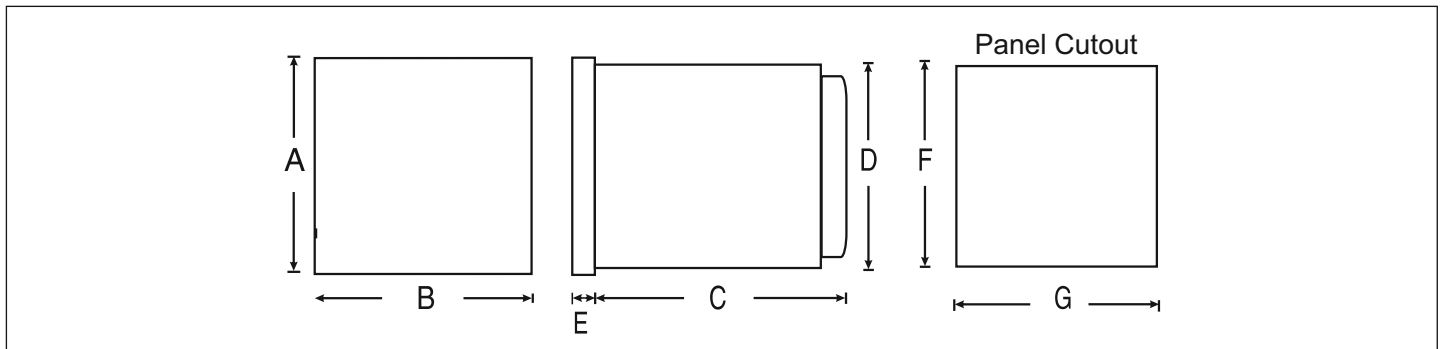
|             |                                             |
|-------------|---------------------------------------------|
| Mounting    | Panel mounting                              |
| Temperature | Operating: 0 to 50 °C, Storage: -5 to 75 °C |
| Humidity    | 95% RH (non condensing)                     |
| Weight      | 120gm                                       |

## MECHANICAL INSTALLATION

### PRODUCT CODE

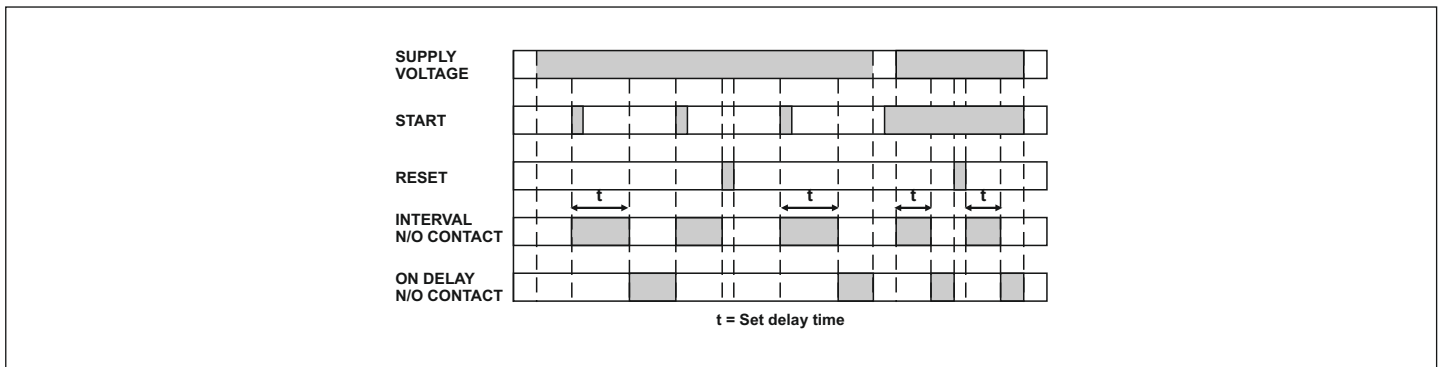
| MODELS | DIGITS | BEZEL SIZE (mm) |
|--------|--------|-----------------|
| TTR735 | 3      | 48 x 48         |

### OVERALL DIMENSIONS (All dimensions in mm)

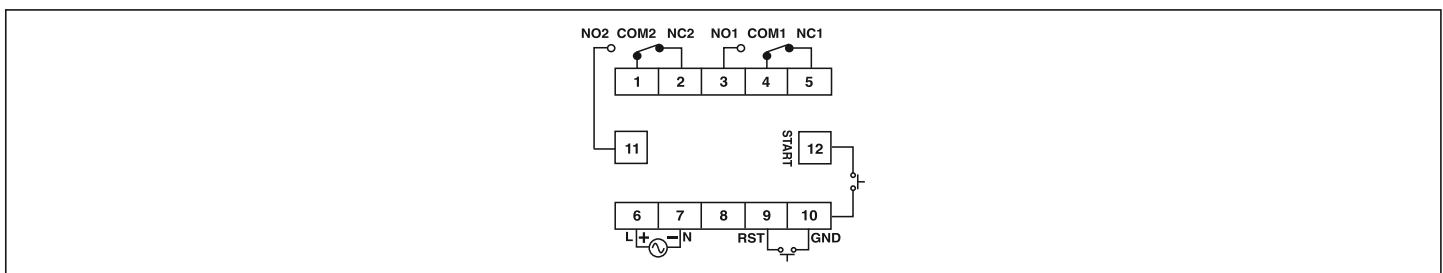


| MODELS | DIM | A  | B  | C  | D  | E   | F  | G  |
|--------|-----|----|----|----|----|-----|----|----|
| TTR735 |     | 52 | 52 | 76 | 45 | 3.5 | 46 | 46 |

### TIMING DIAGRAM



## C) TERMINAL CONNECTION



## D) DIP SWITCH SETTING

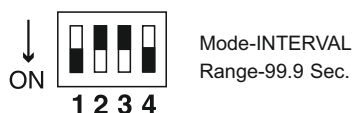
### DIP SWITCH SETTINGS FOR MODE

| MODE     | SW 1 |
|----------|------|
| ON DELAY | OFF  |
| INTERVAL | ON   |

### DIP SWITCH SETTINGS FOR TIME RANGE

| RANGE    | SW2 | SW3 | SW4 |
|----------|-----|-----|-----|
| 9.99 sec | OFF | OFF | OFF |
| 99.9 sec | OFF | OFF | ON  |
| 999 sec  | OFF | ON  | OFF |
| 99.9 min | OFF | ON  | ON  |
| 999 min  | ON  | OFF | OFF |
| 99.9 hr  | ON  | OFF | ON  |
| 999 hr   | ON  | ON  | ON  |

### DIP SWITCH SETTING EXAMPLE



**NOTE:** DIP switch for range and mode settings is on the side of the instrument.

**Etsilon**

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