



## Features

- **Programmable Function : (1) Counter Mode (C)  
(2) Timer Mode (T)**
- **Programmable Up / Down counting**
- **Configurable at Power ON (To avoid Tampering)**
- **2 Programmable Output**
- **Programmable Memory Backup Function**
- **Counting Range : 0 to 9999 Counts**
- **Timing Range : 0.01 Sec to 9999 Hrs**
- **Universal supply voltage (90 to 270 VAC)**
- **24 VDC Available on Request**

## Display Specification

|                |  |        |        |        |
|----------------|--|--------|--------|--------|
| Digits         | : 4 Digits Dual Row<br>7 Segment LED Display   |        |        |        |
| LED Indication | : Output - OP1, OP2<br>Time Base - Hr / Min / Sec<br>(For Timer)<br>Mode - C / T (Except 48x48 size) |        |        |        |
| Height         | Model  | KTC-44 | KTC-77 | KTC-99 |
| PV (White)     |  | 0.36"  | 0.56"  | 0.80"  |
| SV (Green)     |  | 0.36"  | 0.39"  | 0.56"  |

## Input Specification

|                 |  |
|-----------------|--|
| Control Input   | : Count - Proximity S/W (PNP/NPN)<br>Potential Free Contact<br>Reset - Front Switch &<br>Remote Terminal |
| Sensor Supply   | : 12 VDC @ 30mA (SCP)  |
| Accuracy        | : 0.05% FS   |
| Repeat Accuracy | : 0.01%  |

## Output Specification

|           |                                   |
|-----------|-----------------------------------|
| Output 1  | : Relay / SSR Drive (Factory Set) |
| Output 2  | : Relay / SSR Drive (Factory Set) |
| Relay     | : 5A @ 250VAC / 30VDC             |
| SSR Drive | : 12 VDC @ 30mA                   |

## Environmental Specification

|             |                           |
|-------------|---------------------------|
| Temperature | : Operating - 0 to 50°C   |
| Storage     | : -20° to 75°C            |
| Humidity    | : 95% RH (Non-condensing) |

## Auxiliary Supply Specification

|                |   |
|----------------|---|
| Supply Voltage | : 90 - 270 VAC<br>(24 VDC Available on Request) |
|----------------|---|

## Functional Specification

|                         |  |
|-------------------------|--|
| Count / Time Setting    | : Through Keyboard   |
| Count Frequency         | : 3Hz / 30Hz / 100Hz /<br>1kHz / 2.5kHz  |
| Timer Start Mode:       | (1) Power On Start<br>(2) Front Start<br>(3) Remote Pulse High to Low<br>(4) Remote Pulse Low to High<br>(5) Remote Pulse + Level (Open)<br>(6) Remote Pulse + Level (Close) |
| Output1 Mode            | : (1) Latched Output<br>(2) Auto-Reset<br>(3) Time-Pulse Repeat (TPR)  |
| <u>Output1 Function</u> |  |
| For Counter             | : (1) ON Delay (2) OFF Delay   |
| For Timer               | : (1) ON Delay (2) OFF Delay<br>(3) Cycle ON-Time First<br>(4) Cycle OFF-Time First<br>(5) FOR-REV with Hold time  |
| <u>Output2 Function</u> |  |
| For Counter             | : (1) Auxiliary Contact<br>(2) Batch Mode<br>(3) Invert (4) Off  |
| For Timer               | : (1) Auxiliary Contact<br>(2) End of Cycle<br>(3) Invert (4) Off  |

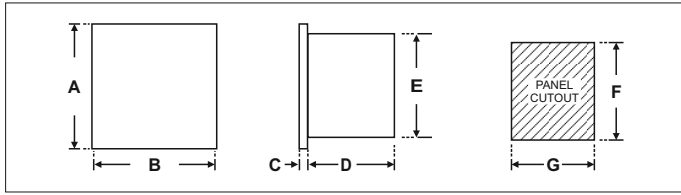
## General Description

|              |        |        |        |
|--------------|--------|--------|--------|
| Model        | KTC-44 | KTC-77 | KTC-99 |
| Weight (Gms) | 200    | 250    | 340    |

## Certification

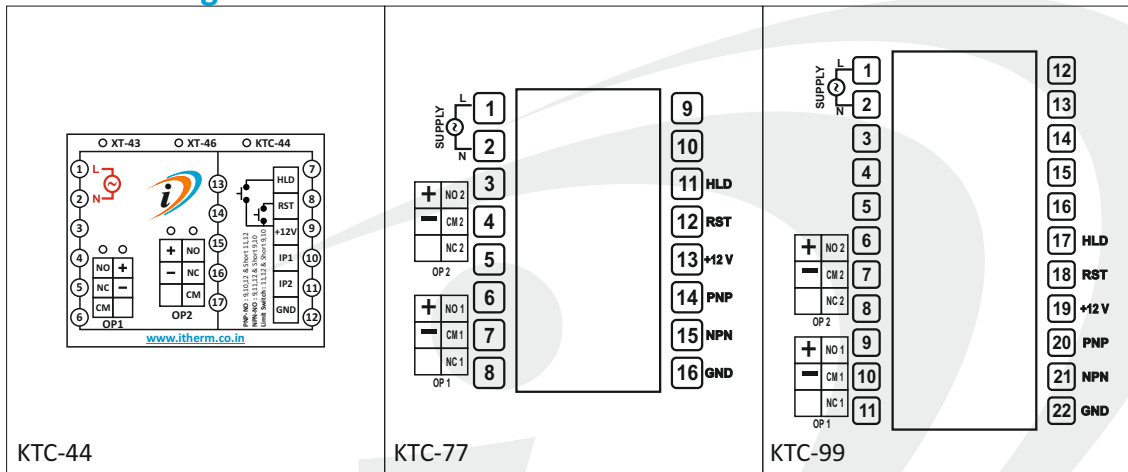
|      |
|------|
| None |
|------|

## Mechanical Dimensions



| Model  | Dim A | Dim B | Dim C | Dim D | Dim E | Dim F | Dim G |
|--------|-------|-------|-------|-------|-------|-------|-------|
| KTC-44 | 48    | 48    | 14    | 87    | 44    | 44    | 44    |
| KTC-77 | 72    | 72    | 14    | 82    | 68    | 70    | 70    |
| KTC-99 | 96    | 96    | 14    | 80    | 90    | 92    | 92    |

## Terminal Diagram



## Order Code : KTC-Series

| Size         | O/P1 Type     | O/P2 Type     |
|--------------|---------------|---------------|
| 4 (48X48X87) | R (Relay)     | R (Relay)     |
| 7 (72X72X82) | S (SSR Drive) | S (SSR Drive) |
| 9 (96X96X80) |               |               |

## Example : KTC-44-R-R

| Size         | O/P1 Type | O/P2 Type |
|--------------|-----------|-----------|
| 44           | R         | R         |
| 4 (48X48X87) | R (Relay) | R (Relay) |

## Timing Range

| Range     | Resolution | Accuracy               |
|-----------|------------|------------------------|
| 99.99 s   | 0.01 sec   | ± 0.05 % of Full Scale |
| 999.9 s   | 0.1 sec    |                        |
| 9999 s    | 1 sec      |                        |
| 99 m 59 s | 1 sec      |                        |
| 999.9 m   | 0.1 min    |                        |
| 9999 m    | 1 min      |                        |
| 99 h 59 m | 1 min      |                        |
| 999.9 h   | 0.1 hrs    |                        |
| 9999 h    | 1 hrs      |                        |