

# DIGITAL TEMPERATURE CONTROLLER

## Single Set Point



**TMP-488**  
96(W) X 96(H) X 120(D) mm.

## Double Set Point



**TMP-588**  
96(W) X 96(H) X 175(D) mm.

### TABLE:-

Thermocouple	Range °C	Accuracy	Resolution
Iron/Constantan - (J)	-50 to 400	1 %	1°C
Chromel/Alumel - (K)	-50 to 1200	0.8 %	1°C
Pt/Pt 13% -Rh - (R)	800 to 1600	1 %	1°C
Pt/Pt 10% -Ph - (S)	800 to 1600	1 %	1°C
Copper/Constant (T)	-100 to 200	0.5 %	1°C
Pt 100	-50 to 500	0.5 %	1°C & 0.1 °C

### DESCRIPTION:-

Digital Temperature Controller TMP-488 / TMP-588 is highly accurate & suitable to withstand industrial Environment. It accepts input from thermocouples J, K, R, S, T, OR PT-100, to provide you the wider operating range. It has built in cold junction compensation to provide reading more accurate under variation in Ambient temperature. The 13.0m.m height bright 7 segment L.E.D. display for easy read out. TMP-488 / TMP-588 is compact and of standard DIN size.

## TECHNICAL SPECIFICATIONS:-

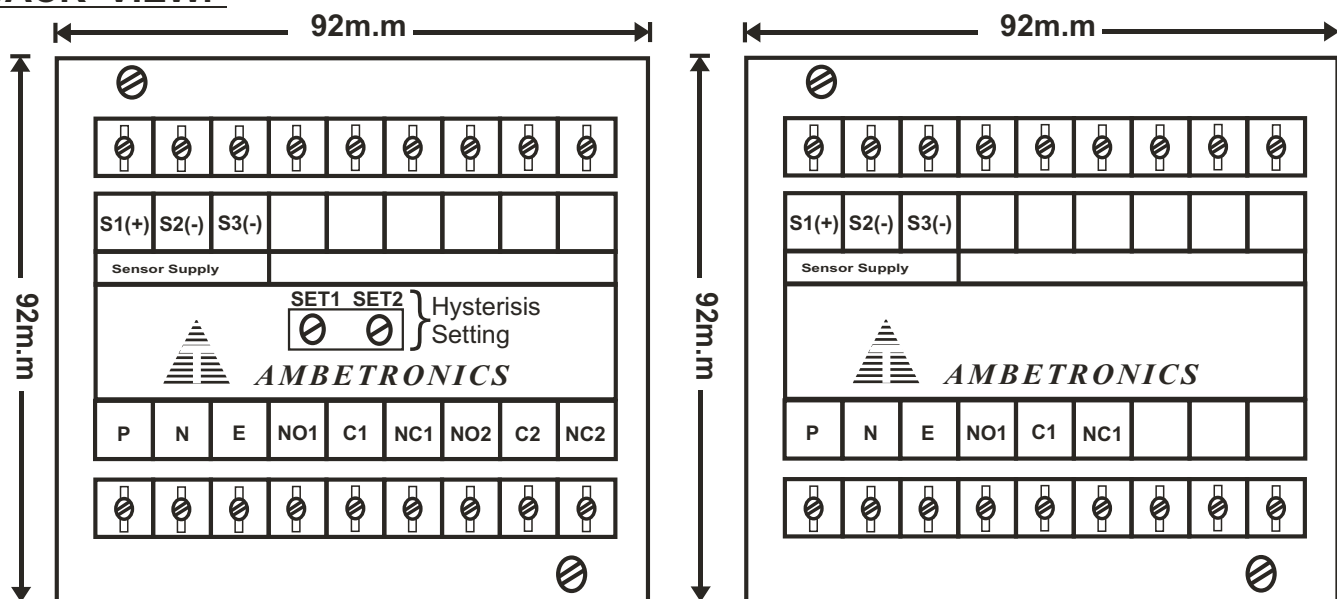
<b>Display</b>	:	3 1/2 digit, 13 m.m height 7 segment L.E.D.
<b>Input</b>	:	J, K, R, S, T, PT-100(2,3 Wire).
<b>Range</b>	:	Please refer table.
<b>Accuracy</b>	:	0.1% of full scale.
<b>Output</b>	:	1 NO/ C/NC, rated 6A at 230 VAC for both relay.
<b>Supply Voltage</b>	:	230Volt      A. <del>10</del> % 110Volt. A.C. ± 10%, 50Hz.
<b>Resolution</b>	:	Please refer table.
<b>Setting</b>	:	By set push button & coarse / fine potentiometer on front panel.
<b>Control Action</b>	:	ON/OFF or Time Proportional
<b>Sensor Break</b>	:	Display show '1' if sensor break (sensor open)
<b>Dimension</b>	:	96(W) X 96(H) X 120(D) in m.m. For TMP-488 96(W) X 96(H) X 175(D) in m.m. For TMP-588.
<b>Cutout</b>	:	92(W) X 92(H) in m.m.
<b>Mounting</b>	:	Panel Mounting.
<b>Compensation</b>	:	Built-in automatic compensation for J & K thermocouples.
<b>Scan</b>	:	2 reading per second.
<b>Hysteresis</b>	:	0 TO 10°C Selectable for ON / OFF action.
<b>Operating Temperature</b>	:	0-50°C

## ORDERING INFORMATION:-

While ordering please specify.

- |   |                             |
|---|-----------------------------|
| 1) Minimum/Maximum range required. _____      | 5) Detail application _____ |
| 2) Actual operating range Required. _____     | _____                       |
| 3) Sensor type required. _____                | _____                       |
| 4) a) ON / OFF action.                      0 | _____                       |
| b) Time proportional action.        0         | _____                       |
| 5) Supply Voltage. _____                      | _____                       |

## BACK VIEW:-



**BACK VIEW - TMP- 588**

**BACK VIEW - TMP- 488**

## Ambetronics Engineers Pvt. Ltd.

17-B, Tarun Industrial Estate, Mogra Pada, New Nagardas Road, Andheri (East), Mumbai-400069, India.

Tel. : +91-22-66995525, 28371143, Fax : +91-22-28226570

Mob. : 09324571143, Website: [www.ambetronics.com](http://www.ambetronics.com)

E-mail : [sales@ambetronics.com](mailto:sales@ambetronics.com), [ambetronics@vsnl.com](mailto:ambetronics@vsnl.com)

DEALERS :