

# 3 1/2 DIGITAL TEMPERATURE METER

**CST-321**

## FEATURE

- Measuring T/C: K, J, T, E, R RTD: Pt100Ω
- Accuracy: T/C: ±0.25% , RTD: ±0.1%
- 3 1/2 Digital display: 1999 ( Option range 199.99 in pt100Ω input )
- Easy-to-wire, screw type terminal
- Outside dimensions is 1/8 DIN standard (96x48 mm)
- High stability & low cost



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## MEASUREMENT

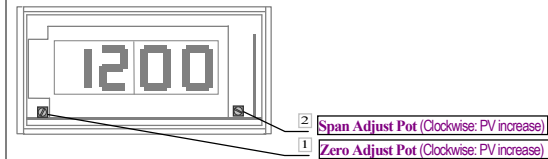
Measuring Range		Resolution	Input Impedance
Thermo-couple	K 0~1200 °C	1 °C	≥1M ohm
	J 0~750 °C	1 °C	≥1M ohm
	T 0~400 °C	1 °C	≥1M ohm
	E 0~1000 °C	1 °C	≥1M ohm
	R 400~1600 °C	1 °C	≥1M ohm
RTD	Pt100 -199.9~199.9 °C	0.1 °C	≥1M ohm
	Pt100 0~800 °C	1 °C	≥1M ohm

## SPECIFICATION

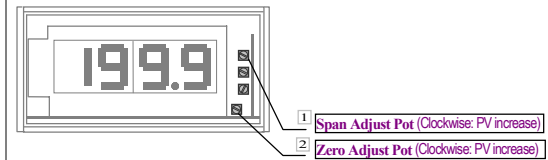
Measuring accuracy:	T/C: ±0.25% F.S. ±1 digit RTD: ±0.1% F.S. ±1 digit
Span adjustment:	≤10% of R.O.
Zero adjustment:	≤2% of R.O.
Sampling time:	About 3 cycles/sec.
Polarity indication:	When input is negative "-"
Over-range indication:	"1" display
Operating temperature:	0~60 °C
Operating relative humidity:	20~95 %RH
Temperature coefficient:	≤100 PPM/°C ≤50 PPM/°C (23 ±5 °C)
Cold junction compensation:	25 ±10°C, error < 0.5 °C
Storage temperature:	-10~70 °C
Power Supply:	AC 115/230V ±10%, 50/60 Hz Option: DC 12V, 24V, 48V ±10% (Isolated)
Power consumption:	DC 3W, AC 4.5VA
Dielectric Strength:	AC 2.0KV for 1 min (Between Power / Input) AC 3.0KV for 1 min Between (Terminal / Case)
Weight:	350g

## ADJUSTMENT

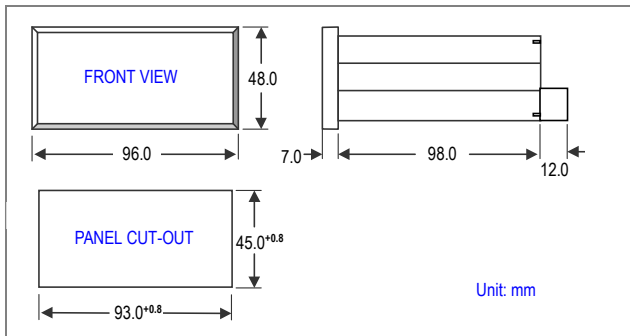
### THERMOCOUPLE INPUT:



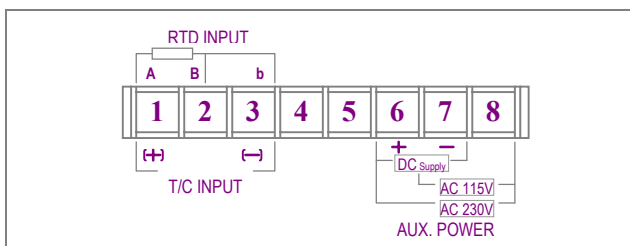
### RTD INPUT:



## DIMENSIONS



## CONNECTION DIAGRAM



## ORDER INFORMATION

CST-321 Input Type — Input Range — Aux. Power

CODE	INPUT TYPE	CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	AUX. POWER
K	K type	A	0~100 °C	1	0~199.9 °C	A	AC 115/230 V
J	J type	B	0~200 °C	2	-50.0~50.0 °C	D12	DC 12 V
T	T type	C	0~400 °C	3	-99.9~199.9	D24	DC 24 V
E	E type	D	0~600 °C	4	0~300 °C	D48	DC 48 V
R	R type	E	0~1000 °C	5	0~600 °C	O	Specify
P	Pt100Ω	F	0~1200 °C	6	0~800 °C		
O	Other	G	400~1600 °C	O	Specify		
		O	Specify				

**C-3**