Digital Temperature Meter

CST-321 **CST-321M**

- Measuring Thermocouple K, J, T, E, R & RTD Pt100Ω
- Accuracy: ±0.25%(for Thermocouple), ±0.1%(for Pt100Ω)
- Dimension is 1/8 DIN standard (96x48mm), 3 1/2 Digital display
- Option Aux. Power for DC 12V, 24V, 48V is available

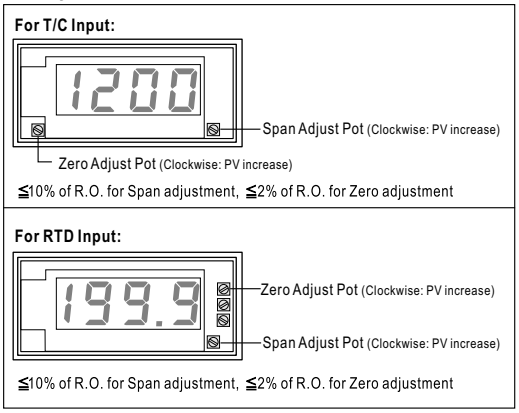
CST-321

Measuring Range & Resolution

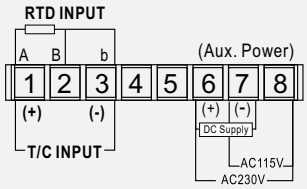
Measuring Range			Resolution	Input Impedance
T/C	K	0~1200℃	1℃	≧1M ohm
	J	0~750℃	1℃	≧1M ohm
	T	0~400℃	1℃	≧1M ohm
	E	0~1000℃	1℃	≧1M ohm
	R	400~1600℃	1℃	≧1M ohm
RTD	Pt100	-199.9~199.9℃	0.1℃	≧1M ohm
	Pt100	0~800℃	1℃	≧1M ohm

Sampling time: About 3 cycles/sec.
Polarity indication: When input is negative "-"
Over-range indication: "1" display
Operating temperature: 0~60℃, 20~95%RH
Temperature coefficient: ≦100 PPM/℃, ≦ 50 PPM/℃, (23±5℃)
Power Supply: AC 115/230V±10%, 50/60Hz
Option DC 12V, 24V, 48V±10% (Isolated)
Power consumption: DC 3W, AC 4.5VA
Dielectric Strength: AC 2.0KV for 1min. (Power/Input)
AC 3.0KV for 1min. (Terminal/ase)
Weight: 350g

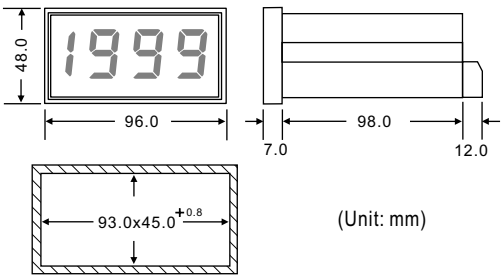
Adjustment



Connection Diagram:



Dimension & Panel Cutout



ORDER INFORMATION

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

CODE	Input Type
K	K type
J	J type
T	T type
E	E type
R	R type
P	Pt100Ω
O	Other

CODE	Thermocouple	CODE	Pt100Ω
A	0~100℃	1	0~199.9℃
B	0~200℃	2	-50.0~50.0℃
C	0~400℃	3	-99.9~199.9℃
D	0~600℃	4	0~300℃
E	0~1000℃	5	0~600℃
F	0~1200℃	6	0~800℃
G	400~1600℃	O	Specify
O	Specify		

CODE	AUX. POWER
A	AC 115/230V
D12	DC 12V
D24	DC 24V
D48	DC 48V
DO	Specify DC
AO	Specify AC

6 CHANNEL TEMPERATURE METER

- Measuring Thermocouple K, J, T, E, R & RTD Pt100Ω
- Accuracy: ±0.25%(for Thermocouple), ±0.1%(for Pt100Ω)
- Dimension is 1/8 DIN standard (96x48mm)
- 3 1/2 Digital display: 1999

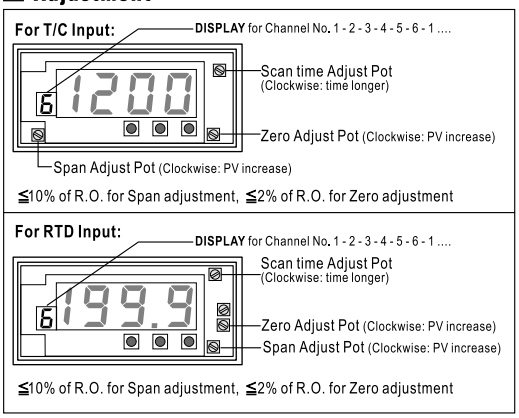
CST-321M

Measuring Range & Resolution

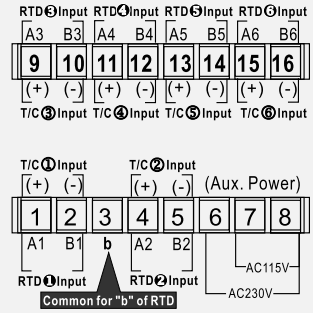
Measuring Range			Resolution	Input Impedance
T/C	K	0~1200℃	1℃	≧1M ohm
	J	0~750℃	1℃	≧1M ohm
	T	0~400℃	1℃	≧1M ohm
	E	0~1000℃	1℃	≧1M ohm
	R	400~1600℃	1℃	≧1M ohm
RTD	Pt100	-199.9~199.9℃	0.1℃	≧1M ohm
	Pt100	0~800℃	1℃	≧1M ohm

Sampling time: About 3 cycles/sec.
Scan mode: Auto/Manual settable by front key
Auto scan time is adjustable by VR for 5~60 sec.
Polarity indication: When input is negative "-"
Over-range indication: "1" display
Operating temperature: 0~60℃, 20~95%RH
Temperature coefficient: ≦100 PPM/℃, ≦ 50 PPM/℃, (23±5℃)
Power Supply: AC 115/230V±10%, 50/60Hz
Power consumption: DC 3W, AC 4.5VA
Dielectric Strength: AC 2.0KV for 1min. (Power/Input)
AC 3.0KV for 1min. (Terminal/ase)
Weight: 500g

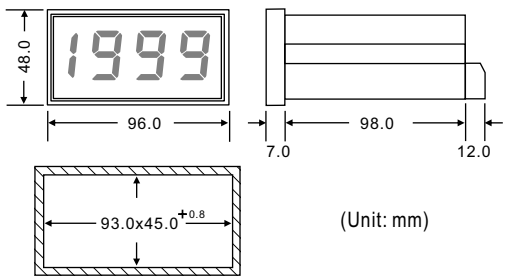
Adjustment



Connection Diagram:



Dimension & Panel Cutout



ORDER INFORMATION

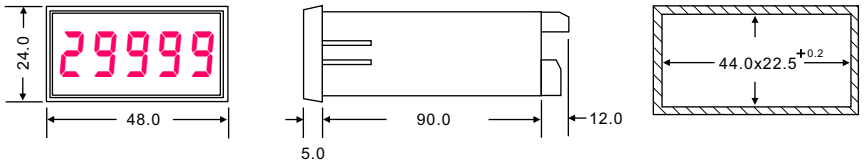
CST - 321M Input Type ——— Input Range ——— Aux. Power

CODE	Input Type
K	K type
J	J type
T	T type
E	E type
R	R type
P	Pt100Ω
O	Other

CODE	Thermocouple	CODE	Pt100Ω
A	0~100℃	1	0~199.9℃
B	0~200℃	2	-50.0~50.0℃
C	0~400℃	3	-99.9~199.9℃
D	0~600℃	4	0~300℃
E	0~1000℃	5	0~600℃
F	0~1200℃	6	0~800℃
G	400~1600℃	7	-100 ~ 600℃
O	Specify	O	Specify

CODE	AUX. POWER
A	AC 115/230V
D12	DC 12V
D24	DC 24V
D48	DC 48V
DO	Specify DC
AO	Specify AC

Dimension & Panel Cutout (Unit: mm)



ORDER INFORMATION

- Display Range: Hi/Low scale settable -19999 ~ +29999
- Accuracy: ≤±0.04% of FS ± 1C
- Option control function: 2 set-points (Control Relay: 2 Relays FORM-C, 1A/230VAC,3A/115V)

CS3

CS3 - PR / SG / RS

PR - CODE	Input Range
A1	0(4)~20mA/0~10mA
V1	0~10V/ 0(1)~5V
AV	0~10V/0~20mA (2 in one)
AO	Specify A input
VO	Specify V input

SG - CODE	Input Range
S1	1.0mV/V
S2	2.0mV/V
S3	4.0mV/V
S8	10.0mV/V
S9	20.0mV/V
SA	40.0mV/V
SO	Specify

RS - CODE	Input Range
R1	0.00Ω ~ 200.00Ω
R2	0.00Ω ~ 2000.0Ω
R3	0.000Ω ~ 20.000KΩ
R4	0.00Ω ~ 200.00KΩ
RO	Specify

(Only for CS3-SG)

RELAY O/P — Analog O/P or RS485 — Exciting Power — Aux. Power

CODE	RELAY O/P
N	
R1	
R2	

CODE	Analog O/P or RS485 PORT
N	None
V	0(1)~5 / 0~10V
I	0(4)~20mA / 0~10mA
8	RS485 (MODBUS RTU mode)

Baud Rate: 1200/2400/4800/9600/19200/38400 programmable
Data Bits: 8 bits
Remote Display: to show the value from RS485 COMMAND OF MASTER
Distance: 1200M

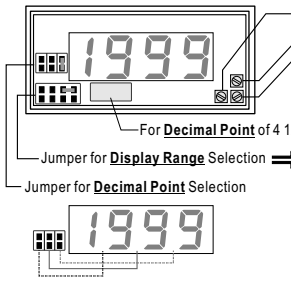
CODE	Exciting Power
N	None
E05	DC 5V
E12	DC 12V
E24	DC 24V

CODE	Aux. POWER
ADH	AC/DC 85~264V
ADL	AC/DC 20~90V

CSM-321 3 1/2 Digital CSM-421 4 1/2 Digital

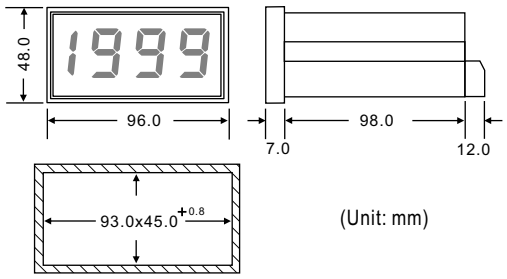
- Measuring DCA, DCV, ACA, ACV, Hz
- CSM-321 Accuracy: ±0.1%(DC), ±0.2%(AC),
- CSM-421 Accuracy: ±0.04%(DC), ±0.1%(AC)
- Dimension is 1/8 DIN standard (96x48mm)

Table (1) - Zero & Span Adjustment / Display Range & Decimal Selection



Selection	3 1/2 , 4 1/2Digital Range	Selection	3 ½ , 4 1/2 Digital Range
	1999~1700 / 19999~17000		900~625 / 9000~6250
	1725~1300 / 17250~13000		625~425 / 6250~4250
	1300~900 / 13000~9000		425~300 / 4250~3000
	1200~825 / 12000~8250		300~200 / 3000~2000

Table (2) - Dimension & Panel Cutout



ORDER INFORMATION

CSM- 3 2 1 — Input Type — N — Input Range — Aux. Power

CODE	Digital
3	3 1/2 Digital
4	4 1/2 Digital

CODE	Option
N	None
H	Peak Hold

CODE	Input Type
D	DC
A	AC
TR	TRMS
F	Frequency

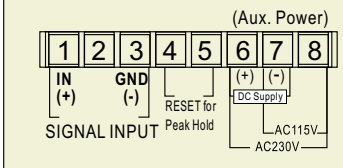
CODE	3 1/2	(4 1/2)
A	199.9uA	(199.99uA)
B	1.999mA	(1.9999mA)
C	19.99mA	(19.999mA)
D	199.9mA	(199.99mA)
E	1.999A	(1.9999A)
F	5.00A	(5.000A)
G	10.00A	(10.000A)
I	Specify	Specify

CODE	3 1/2	(4 1/2)
1	199.9mV	(199.99mV)
2	1.999V	(1.9999V)
3	19.99V	(19.999V)
4	199.9V	(199.99V)
5	300V	(300.0V)
6	600V	(600.0V)
V	Specify	Specify

CODE	3 1/2	(4 1/2)
1	199.9Hz	(199.99Hz)
2	1999Hz	(1999.9Hz)
F	Specify	(Specify)
1	AC 2~200V	
2	AC 30~600V	
3	Pulse 5V	
4	Pulse 12V	
5	Pulse 24V	
O	Specify	

CODE	Aux. POWER
A	AC 115/230V
D12	DC 12V
D24	DC 24V
D48	DC 48V
DO	Specify DC
AO	Specify AC

Connection Diagram:



CSR-321 3 1/2 Digital CSR-421 4 1/2 Digital Process Meter

- Measuring process signal mA, Vdc, Potentiometer, Pulse/u
- CSR-321 Accuracy: ±0.1% & CSR-421 Accuracy: ±0.04%
- Dimension is 1/8 DIN standard (96x48mm) as above Table (2)
- Zero & Span Adjustment, Decimal Point and Display Range selection as above Table (1)

ORDER INFORMATION

CSR- 3 2 1 — Input Range — Excitation Supply — Aux. Power

CODE	Digital
3	3 1/2 Digital
4	4 1/2 Digital

CODE	Current
A1	0~1mA
A2	0~10mA
A3	0~20mA
A4	4~20mA
AO	Specify mA

CODE	Voltage
V1	0~50mV
V2	0~60mV
V3	0~1V
V4	0~5V
V5	0~10V
V6	1~5V
V7	0~100mV
VO	Specify (V i/p)

CODE	Potentiometer/ohm
RP1	50~10K ohm
RP2	10K~100K ohm
RPO	Specify (3-w Ω)
R1	199.9 ohm
R2	1999 ohm
R3	10.00K Ohm
RO	Specify (2-w Ω)

CODE	Strain Gauge
S1	1.0mV / V
S2	1.3mV / V
S3	1.5mV / V
S4	2.0mV / V
S5	2.5mV / V
S6	3.0mV / V
S7	4.0mV / V
S8	3.33mV /V
SO	Specify (mV/V)

CODE	Frequency
H1	0~100Hz
H2	0~200Hz
H3	0~500Hz
H4	0~1KHz
H5	0~2KHz
H6	0~5KHz
H7	0~10KHz
H8	0~40KHz
HO	Specify (Hz)

CODE	Excit. Supply
N	None
E1	DC 10V
E2	DC 12V
E3	DC 24V
E4	DC 5V
EO	Specify

CODE	Aux. Power
A	AC 115/230V
A3	AC 380V
A4	AC 415V
A24	AC 24V
D12	DC 12V
D24	DC 24V
D48	DC 48V
DO	Specify DC
AO	Specify AC

Connection Diagram: