ANV

TEMPERATURE CONTROLLER

INSTRUCTION MANUAL
TC SERIES

Ordering Information

TC 3 D D – R P A K 3
① ②③④ ⑤⑥⑦⑧⑨

① Product
Temperature Controller

② Size
1 = 48H x 48W mm
2 = 96H x 48W mm
3 = 72H x 72W mm
4 = 96H x 96W mm

③ Method of Setting
D = Digital Switch
A = Trimmer
O = Without set

④ Method of Display
D = Digital LED Display
O = Without Display

⑤ Method of Output
R = Relay Output
V = Voltage Output

⑥ Method of Control
P = Proportional Control
O = ON/OFF Control

⑦ Alarm
A = With Stand-By/Over-Heat Alarm

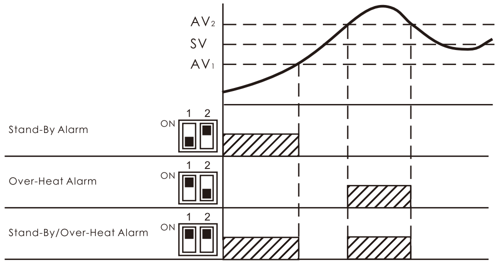
⑧ Type of Sensor
K = K Type
Pt = Pt100Ω

⑨ Range of Setting

Digital Switch		Trimmer	
W =	0 ~ + 99.9	L =	0 ~ + 50
		U =	0 ~ + 100
1 =	0 ~ + 199	2 =	0 ~ + 200
		C =	0 ~ + 300
3 =	0 ~ + 399	4 =	0 ~ + 400
		F =	0 ~ + 500
5 =	0 ~ + 599	6 =	0 ~ + 600
		7 =	0 ~ + 700
9 =	0 ~ + 999	8 =	0 ~ + 800
		N =	0 ~ + 900
		A =	0 ~ + 1000
		X =	0 ~ + 1200

Specification

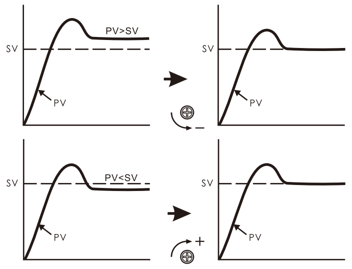
- ON/OFF LED
  Green-Control Output Turn ON
  Red-Control Output Turn Off
- AL Stand-By/Over-Heat Alarm
  SV=Setting Value
  AV1/AV2=Stand-By/Over-Heat
  Function Selects by DIP Switch



Notice of Use

- "RESET" OFFSET

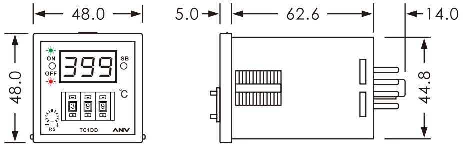
RESET Adjuster may modify the difference between present value (PV) and setted value (SV).If PV>SV may modify RESET at counterclockwise. If PV<SV may modify RESET at clockwise.

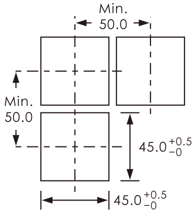


- Separate the signal line of the Sensor from power line, load line and use independent line
- Keep away from the high frequency instrument, high temperature devices or vibration machines
- Do not install the unit at the place where corrosive gasses, moisture, etc. are occurred
- Heat Load connect to NO contact, cooler Load connect to NC contact

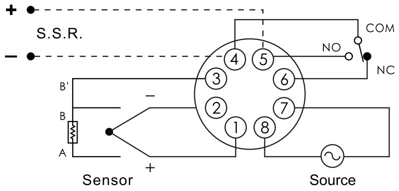
TC1 Series 48H x 48W mm

- Dimension & Fixed Hold


48.0
5.0
62.6
14.0
48.0
44.8
ON
OFF
SB
399
℃
RS
TC1DD
ANV

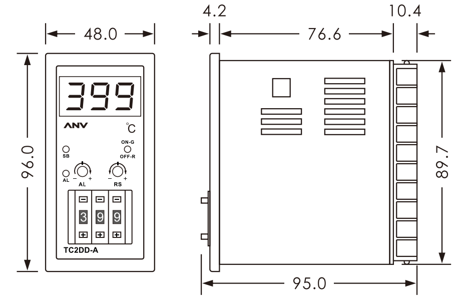

Min. 50.0
Min. 50.0
45.0 +0.5 −0
45.0 +0.5 −0

- Connection Diagram

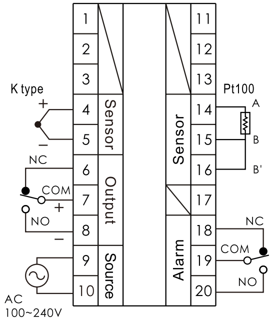

+
−
S.S.R.
COM
NO
NC
B'
B
A
−
+
Sensor
Source
1
2
3
4
5
6
7
8

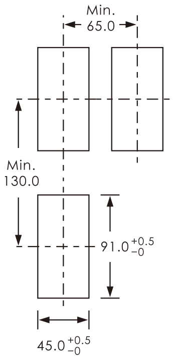
TC2 Series 96H x 48W mm

- Dimension & Fixed Hold


48.0
4.2
76.6
10.4
96.0
89.7
95.0
399
ANV
℃
SB
ON-G
OFF-R
AL
RS
TC2DD-A

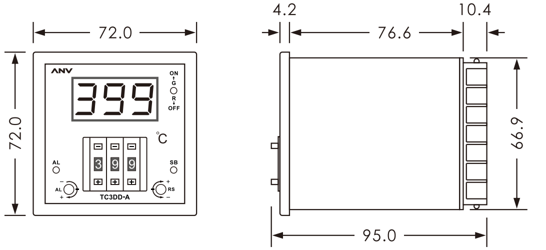
- Connection Diagram


K type
+
−
NC
COM
NO
AC 100~240V
Sensor
Output
Source
Sensor
Alarm
Pt100
A
B
B'
NC
COM
NO
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

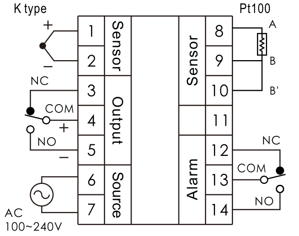

Min. 65.0
Min. 130.0
91.0 +0.5 −0
45.0 +0.5 −0

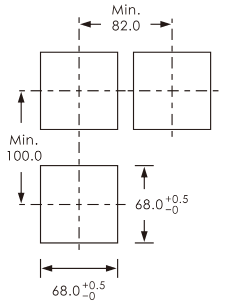
TC3 Series 72H x 72W mm

- Dimension & Fixed Hold


72.0
4.2
76.6
10.4
72.0
66.9
95.0
ANV
399
℃
ON
OFF
AL
SB
RS
TC3DD-A

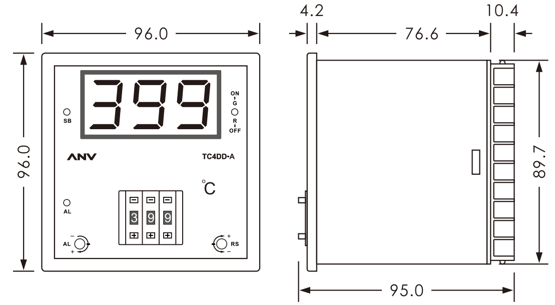
- Connection Diagram


K type
+
−
NC
COM
NO
AC 100~240V
Sensor
Output
Source
Sensor
Alarm
Pt100
A
B
B'
NC
COM
NO
1
2
3
4
5
6
7
8
9
10
11
12
13
14

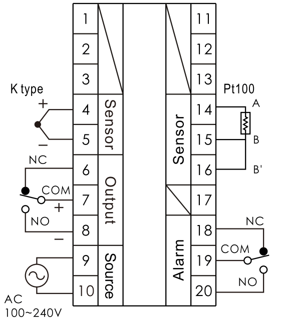

Min. 82.0
Min. 100.0
68.0 +0.5 −0
68.0 +0.5 −0

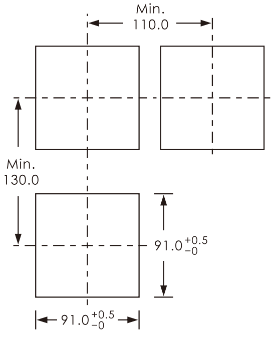
TC4 Series 96H x 96W mm

- Dimension & Fixed Hold


96.0
4.2
76.6
10.4
96.0
89.7
95.0
399
SB
ON-G
OFF-R
ANV
TC4DD-A
℃
AL
RS

- Connection Diagram


K type
+
−
NC
COM
NO
AC 100~240V
Sensor
Output
Source
Sensor
Alarm
Pt100
A
B
B'
NC
COM
NO
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20


Min. 110.0
Min. 130.0
91.0 +0.5 −0
91.0 +0.5 −0