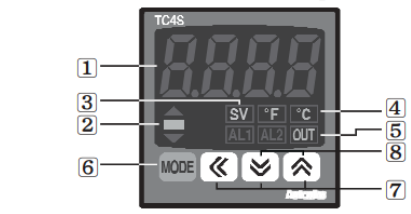
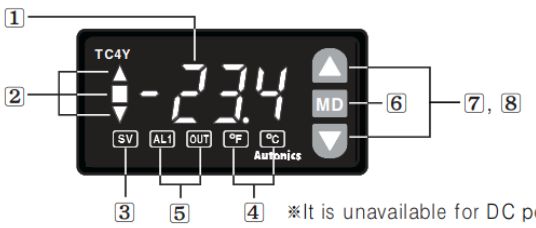
TC4S Temperature Controller from Autonics

Description

How to set SV temperature and PV bias for calibration purposes

▣ Parts description





※It is unavailable for DC power type.

1 Temperature display
It shows current temperature(PV) in RUN mode and parameter and set value for each setting group in parameter change mode.
2 Deviation and Auto tuning indicator
It shows current temperature(PV) based on set temperature(SV) by LED.
Deviation indicators(▲, ■, ▼) are flashed by every 1sec when operating auto tuning.
3 Set temperature(SV) indicator
Press any front key once to check or change current set temperature(SV).
SV indicator will be ON and preset SV value will be flickering.
4 Temperature unit indicator(℃/°F) : It shows current temperature unit.
5 Control/sub output indicator
−OUT : It will light up when control output(Main Control Output) is on.
※In case of CYCLE/PHASE control, it will light up when MV is over 3.0%.(Except for DC power type)
−AL1/AL2 : It will light up when alarm output AL1/AL2 are on.
6 MODE Key : Used when entering into parameter setting group, returning to RUN mode, moving parameter and saving setting values.
7 Adjustment : Used when entering into set value change mode, Digit moving and Digit Up/down.
8 FUNCTION key : Press ▼ + ▲ keys for 3 sec to operate function(RUN/STOP, alarm output cancel) set in inner parameter [dI -Y].
※Press ▼ + ▲ keys once in set value operation to move digit.

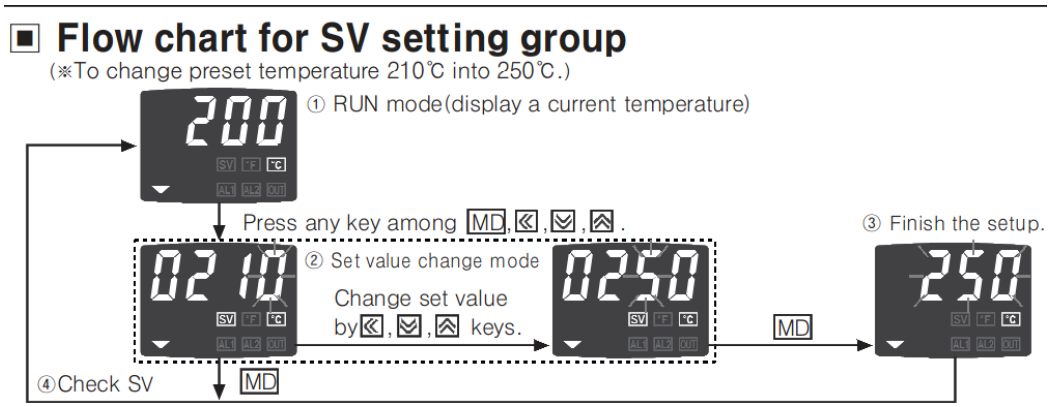
▣ Input sensor and range[In-t]

●Select proper input sensor type by user application.

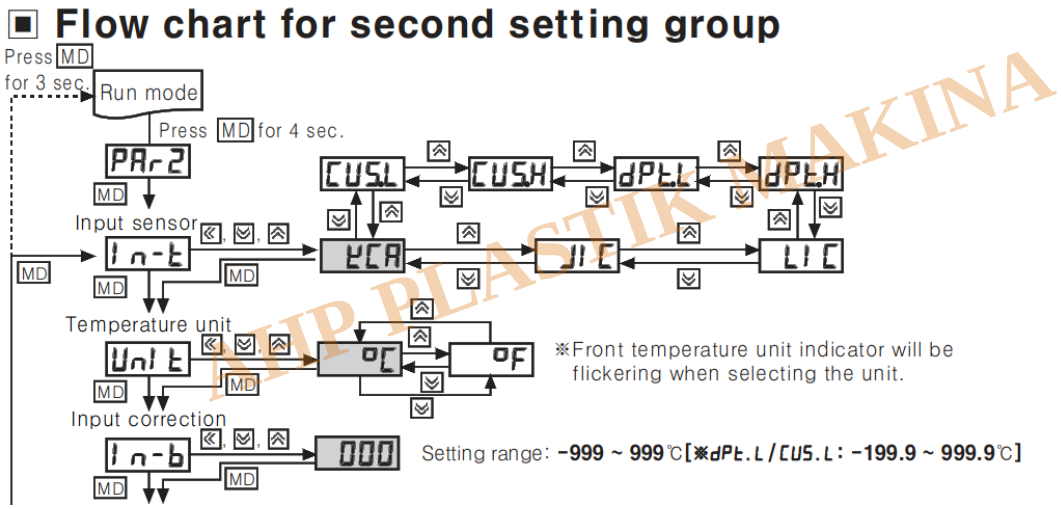
Input sensor			Display	Input range (℃)	Input range (°F)
ThermoCouple	K(CA)		K CA	−50 ~ 1200	−58 ~ 2192
	J(IC)		J I C	−30 ~ 500	−22 ~ 932
	L(IC)		L I C	−40 ~ 800	−40 ~ 1472
RTD	DIN rated	DPt 100Ω	dPt.H	−100 ~ 400	−148 ~ 752
			dPt.L	−100.0 ~ 400.0	−148.0 ~ 752.0
	CU50Ω		CU5.H	−50 ~ 200	−58 ~ 392
			CU5.L	−50.0 ~200.0	−58.0 ~ 392.0

●Setting range : [K CA / J I C / L I C / dPt.H / dPt.L / CU5.H / CU5.L] (Default : [K CA])

Set the requested temperature SV as below:



How to set input bias for PV display of controller. For this purpose, you need to measure requested temperature with calibrated temperature reading device and set offset value in parameter Inb as below:



Category

1. How to Use