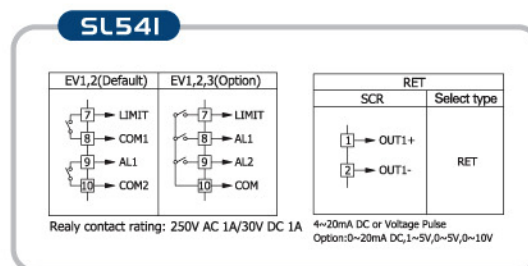
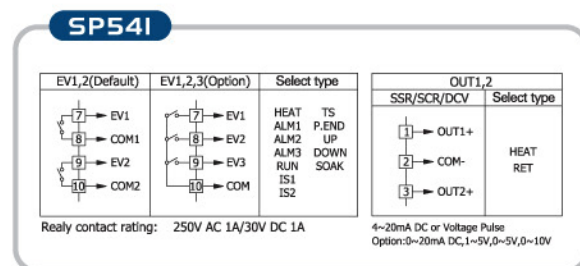
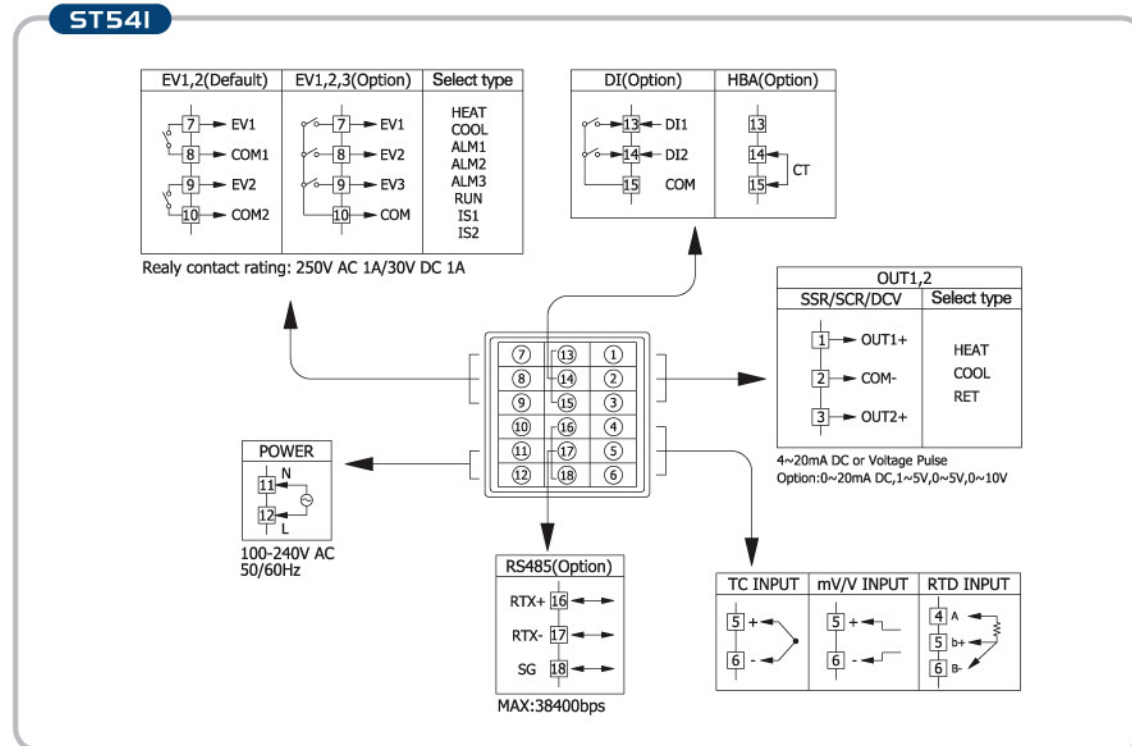
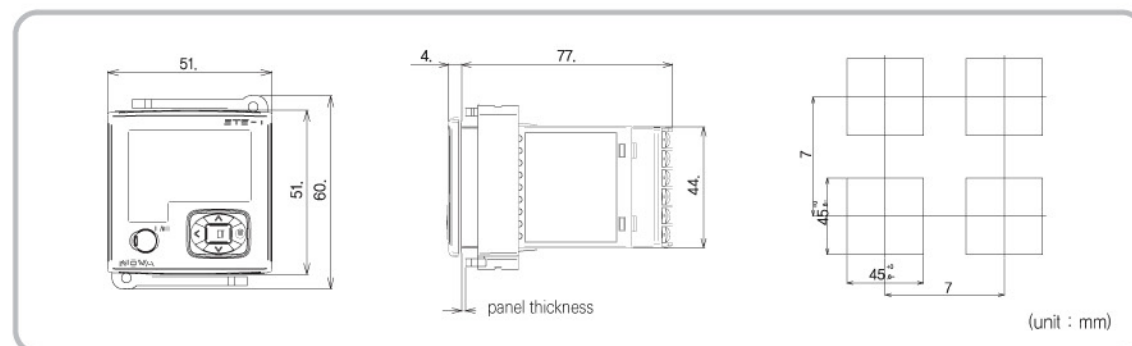


## TERMINAL ASSIGNMENT



## DIMENSION AND PANEL CUTOUT SIZE



**CAUTION** When you use this product, please surely read user manual attached in the product for your safety

# NOVA 541 SERIES

## temperature controller



# NOVA 541 SERIES

- ▶ Innovatively designed product
- ▶ Much smaller product size (length 78mm)
- ▶ Key-pad type
- ▶ 5 digits Display in minimum size
- ▶ Upgraded communication speed (Max 38400 bps)

- |                    |                                  |
|--------------------|----------------------------------|
| 1 STATUS LAMP      | 4 SP display (RED)               |
| 2 PV display (RED) | 5 BUTTON                         |
| 3 MODEL            | 6 Front loader for communication |



## ST541 (Digital controller)

- ▶ AUTO/MAN output function
- ▶ Reservation function of operation RUN/STOP
- ▶ Heating/Cooling output available
- ▶ Display Auxiliary output status

## SP541 (Programmable controller)

- ▶ Total 30 segments of 2 patterns available
- ▶ Change Holding SP and Holding time during Soak segment
- ▶ Various auxiliary outputs(UP,DOWN,TS,PTEND, etc.)

## SL541 (Limit controller)

- ▶ Reset RELAY after confirmed by user when Over Temperature occur
- ▶ Memory and Display Function of High and Low temperature
- ▶ Memory and Display time period from the power off to the reset



## SPECIFICATIONS

Classification	ST541	SP541	SL541	
Overall Size	48(W) x 48(H) x 78(L)mm			
PV/SP display	5 Digit LED Display Height (7 segment 4 1/2 digit)			
Sampling time	250ms			
Indication Accuracy	±0.1% of FS			
Control Loops and Modes	Single-loop control / Heating & Cooling	Single-loop control	High or Low	
Running modes	Auto/Manual, RUN/STOP	Program / Reset	-	
PID	3 PID Zones + 1 Deviation PID Zone			
Number of Set Points	4 kinds of setups (SP1~SP4)	-	-	
Number of Programs	-	2 Program patterns	-	
Number of Segments	-	15segments x 2, Max 30	-	
Sensor	PV Input Universal Input (1 point)			
	Kind	T/C	K, J, E, T, R, B, S, L, N, U, W, Platinel II, C	
		RTD	Pt100(1/100 display function), JPt100	
		VDC	-10~20mV DC, 0 ~ 100mV DC 0.4~2.0V DC, 1~5V DC, 0~10V DC, [4 ~ 20mA DC] 250Ω (±0.1%) Adherence ]	
Control	Control Output Universal Output(Max 3 points)			
	Kind	Time-proportional PID	Relay, SSR(0 ~ 12V DC Pulse)	-
		Continuous PID	SCR(4~20mA DC), (0~20mA DC : Option)	-
EVENT (Max. 3 points)	Capacity Basic 2 points			
	Alarm Types	22 Types(Upper/low limits in measuring, Upper / low limits in deviation, Upper / low limits in standby, HBA, SOAK .....		
	Inner SP Signal	2 Points(PV, SP, TSP)		
	Program Time Signal	-	1 Point	-
	Others	-	1 Point (RUN, Pattern end, UP, DOWN, SOAK)	-
Retransmitting Output		4~20mA DC, 0~20mA DC(Option) (PV,SP,MV)	4~20mA DC, 0~20mA DC(Option) (PV,SP)	
Digital input	Capacity 2 Points			
	Type	SP selection, operation / stop	RUN, HOLD, STEP, RESET	-
Communication Protocols		PC-Link, MODBUS(ASCII,RTU), SYNC(MASTER,SLAVE) MAX : 38400bps		
Power Supply		100~240VAC, 50 ~ 60Hz / Below 6W in Max		
Model & Addition code				
Model	Addition code	Description		
S*541	- □ □ / □ / □	Digital Controller	Programmable Controller	Limit Controller
Type	0	basic specification		
	1	Heating/cooling control	-	-
Power	0	100~240V AC		
	1	24V DC		
Option 1	/RS	RS485 Communication	←	←
	/SUB	Dependent 3 Relays	←	-
	/DI	Digital Input 2 Points	←	-
	/HBA	Heater Break Alarm(50A)	←	-
Option 2	/DCV1	0~20mA DC	←	-
	/DCV2	0~5V DC	←	-
	/DCV3	1~5V DC	←	-
	/DCV4	0~10V DC	←	-

※ As for option 1, you can select only up to 3 options in Max.

※ You can select only up to 3 options in Max. (applied for OUT1) and you cannot use OUT2 on DVC1 option.