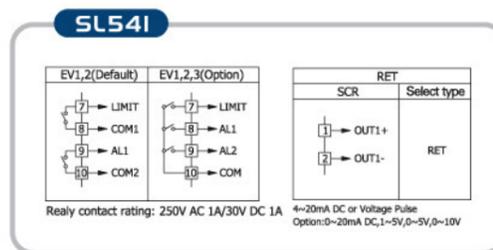
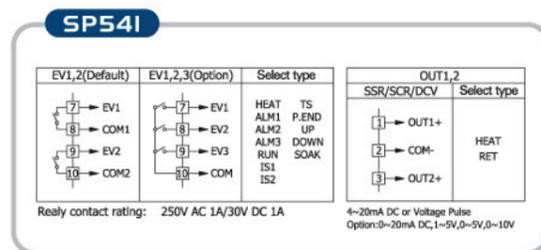
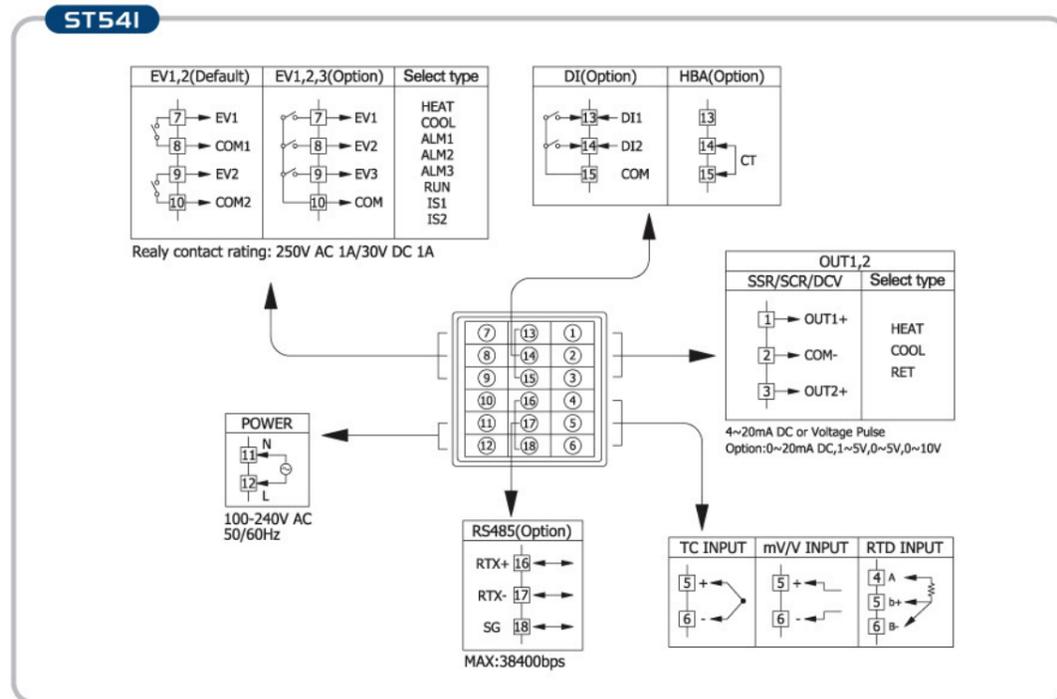
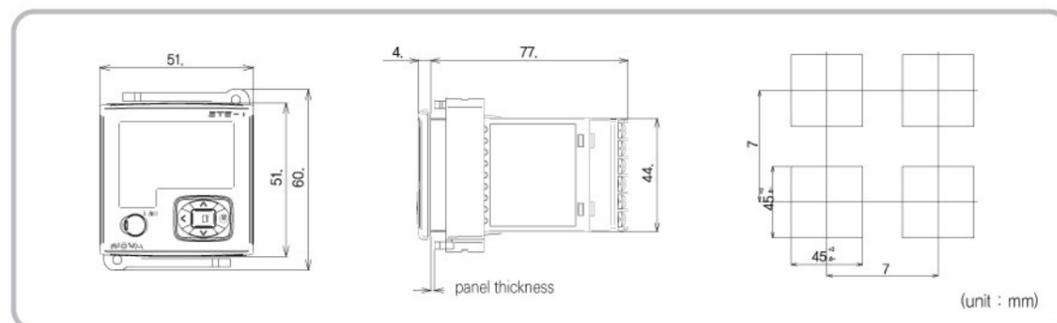


TERMINAL ASSIGNMENT



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
- ② PV display (RED)
- ③ MODEL
- ④ SP display (RED)
- ⑤ BUTTON
- 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 DCA] 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(Optional) (PV,SP,MV)	4~20mA DC, 0~20mA DC(Optional) (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	
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.