



Temperature Indicating Controller

# NOVA100<sup>®</sup>

## SERIES



Digital Controller ST190<sup>°</sup> / ST180<sup>°</sup> / ST140<sup>°</sup>

Limit Controller SL140<sup>°</sup>



Reserve function of Run/End



Parameter UP/Download



PLC Auto Connect



Support free PC S/W



Temperature Indicating Controller

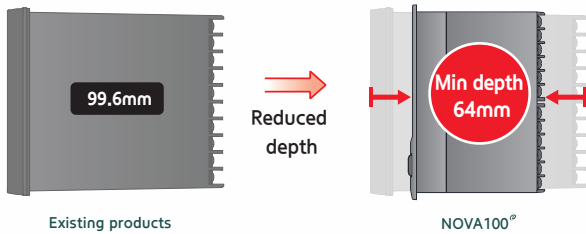
## NOVA100<sup>e</sup> SERIES

### Digital Controller Limit Controller

NOVA100<sup>e</sup> is a digital controller with easy operation of parameters, operability, economy and reliability.

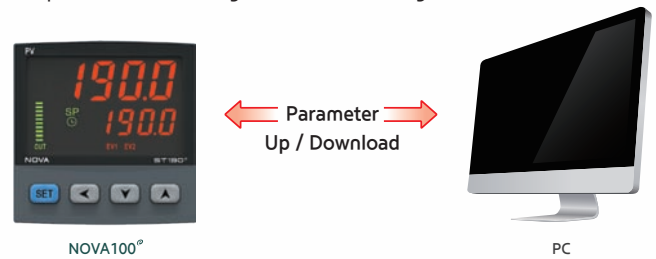
## COMPACT SIZE

Compact and space-saving design.



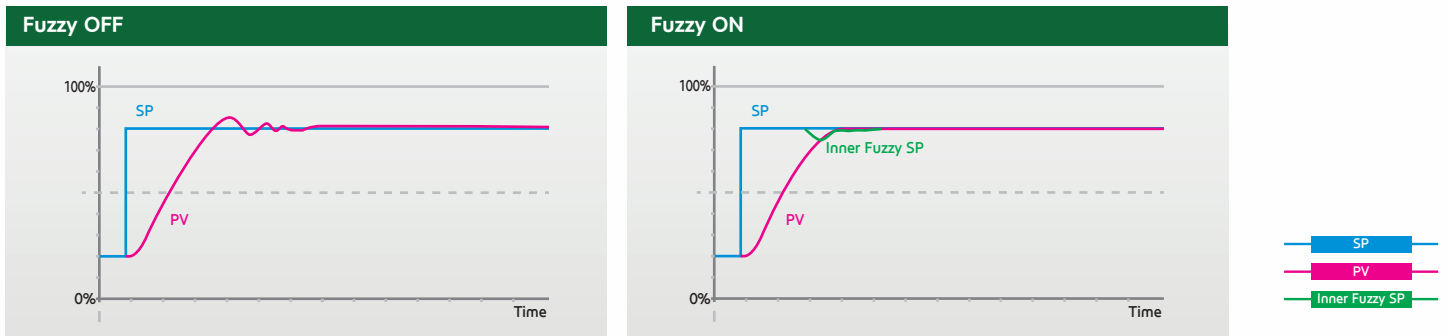
## PARAMETER MANAGEMENT

Simple Parameter setting and transition using PC S/W.



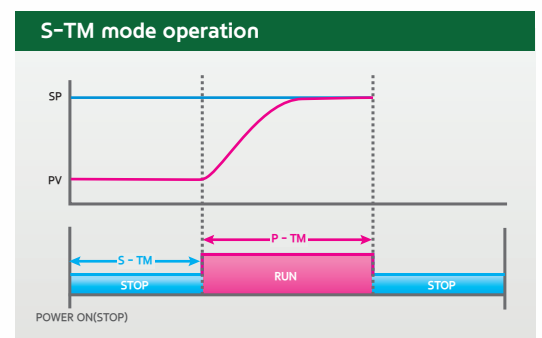
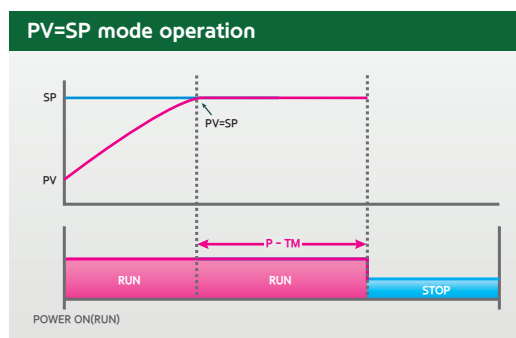
## POWELL FUZZY FUNCTION(OVERSHOOT CONTROL)

In case when SP changes often, Fuzzy manages over-shoot with best results.



## BUILT-IN RESERVE FUNCTION OF RUN AND STOP

- Reserve function of Run is to start control temperature after setting time(S-TM).
- Reserve function of End is to stop control output when after pass the setting time(P-TM).





Reserve function of Run / End



PID automatic correction function (AT-G)



Power mode function (STOP, COLD, HOT)



Alarm output Max. 2points



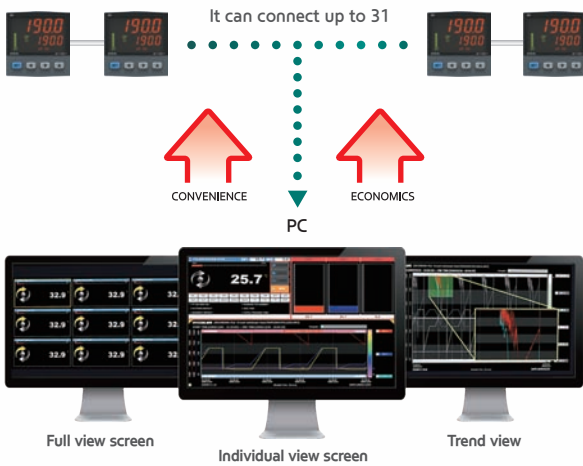
Sensor input correction function



Various auxiliary output support (PLC Automatic connection)

## SUPPORT FREE PC S/W

Support free PC S/W which can control/monitor it on user PC, and improves user convenience and economics.

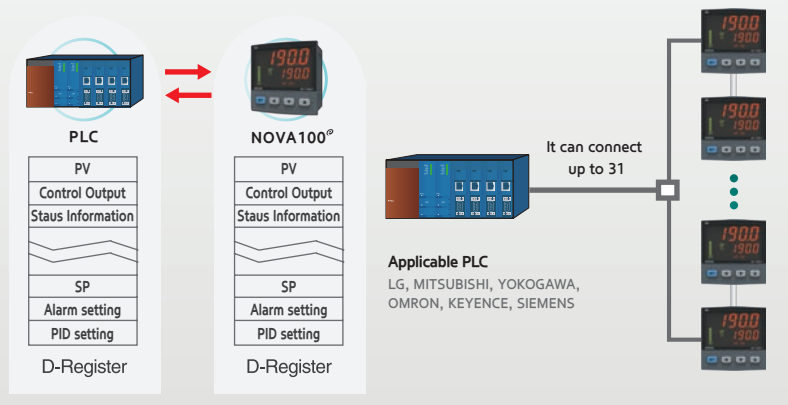


## PROGRAMLESS COMMUNICATION

Communicating with PLC without program, PLC is a communication port can be connected to up to 31 units.

### Use PLC user zone(Area)

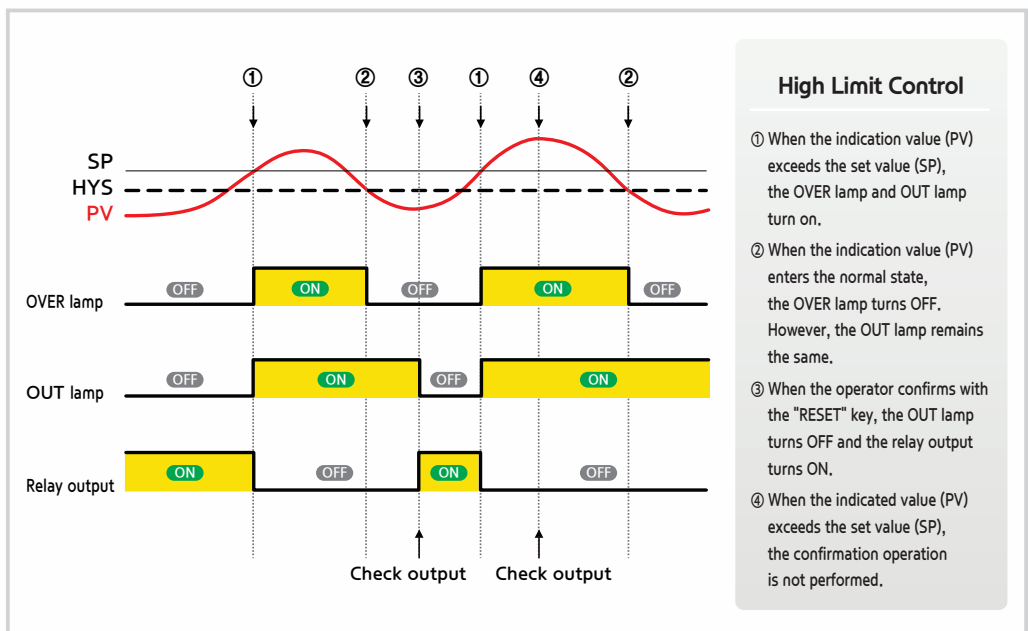
The specified parameters of NOVA100<sup>®</sup> SERIES are automatically stored in the user area of the PLC. NOVA100<sup>®</sup> starts communication at once connecting cable.







## LIMIT CONTROLLER



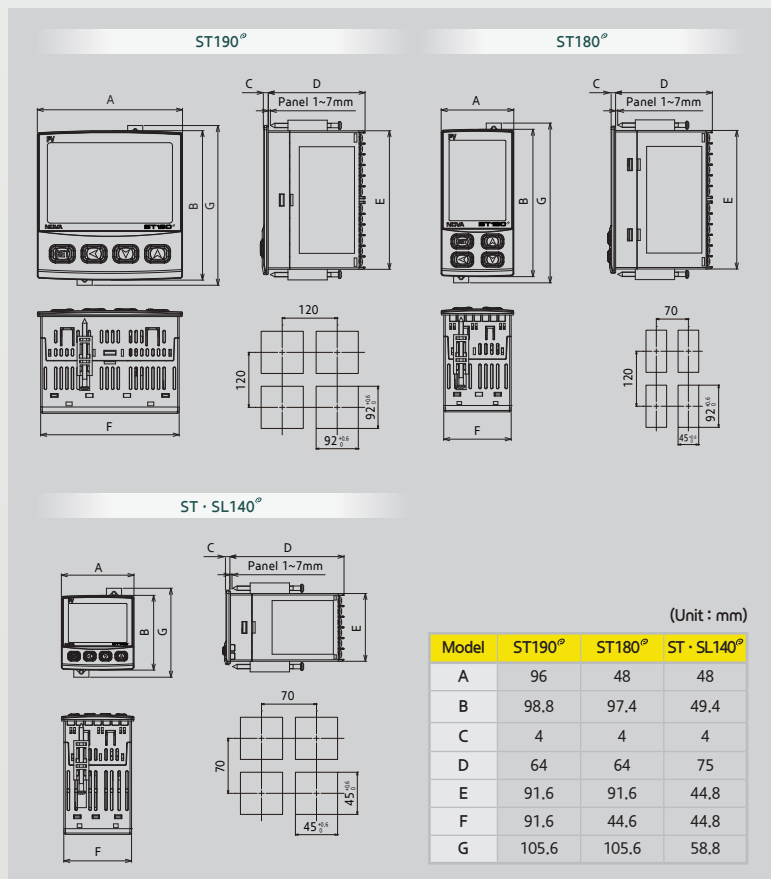
- Memory and display function of high and low temperature value
- In case that over temperature occurs, relay recovery function by check key
- Memory and display function of time period from the power off the reset
- 1point transmission output, 1point over output, 1point alarm output support (Max. 2points)
- Over output 1point, alarm output 1point support



# PRODUCT SPECIFICATION

NOVA100 <sup>o</sup> SERIES					
Model name		ST140 <sup>o</sup>	ST180 <sup>o</sup>	ST190 <sup>o</sup>	SL140 <sup>o</sup>
Size		48(W) × 48(H) × 79(L)	48(W) × 96(H) × 68(L)	96(W) × 96(H) × 68(L)	48(W) × 48(H) × 79(L)
PV/SP display		Each 5 digits			
Sampling time		250ms			
Control mode		Normal control			
PID		3 Zone PID, 1 Deviation PID			
Input	Type / Accuracy	Universal Input 1point / ±0.2% of full scale ±1digit			
	T/C	K, J, E, T, R, B, S, L, N, U, W, Platine II, C			
	RTD	PT100(IEC), JPT100(JIS), 1/100 표시가능			
	DCV	-10 ~ 20mV, 0 ~ 100 mV, 0.4 ~ 2.0V DC, 1 ~ 5V DC, 0 ~ 10V DC (4 ~ 20mA, 0 ~ 20mA, External resistance 250Ω, 500Ω attach)			
Output	Quantity	1point			Relay 1point
	Output type	Control output			OVER detection
	SSR	12V DC (Resistance: Min. 600Ω)			-
	SCR	4 ~ 20mA DC (Resistance : Max. 500Ω) / Accuracy: ±0.3%			-
	Relay	250V AC 1A, 30V DC 1A			-
Alarm relay output	Quantity	A : 1point + 1point			A : 1point
	Specification	250V AC 1A, 30V DC 1A			
	Type of Alarm	Upper of PV, Lower of PV, Upper of deviation, Lower of deviation, High/Low deviation out of range, High/Low deviation within of range, Upper of TSP, Lower of TSP , Maintain 14 other types			
Communication		PC-Link, PC-Link(Checksum), Modbus(ASCII, RTU), Sync(Master, Slave), PLC COMM., Max. 115,200bps			-
Power		100~240V AC, 50/60Hz, 10VA Max.			

## EXTERNAL AND CUTTING SIZE



## MODEL CODE

Model	Additional code	ST190 <sup>o</sup> ST140 <sup>o</sup>	ST180 <sup>o</sup>	SL140 <sup>o</sup>
S * 1 □ 0 <sup>o</sup>	- □ 0 /□	ST SERIES	ST SERIES	SL SERIES
Size	4	48*48	-	-
	8	48*96	-	-
	9	96*96	-	-
Control output	O	-	-	OVER detection
	S	SSR	-	-
	A	SCR(4~20mA)	-	-
	R	Relay	-	-
Power	0	100 ~ 240V AC	-	-
	1	24V DC	-	-
Option	/RS	RS485	-	-
	/ALM	Relay 1point	-	-



**SAMWON**

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