



Temperature Indicating Controller

NOVA1000[®]

SERIES



Digital Controller

ST190[®] / ST180[®] / ST140[®]



Reserve function of Run/End



Parameter UP/Download



PLC Auto Connect



Support free PC S/W



Temperature Indicating Controller

NOVA100^e SERIES

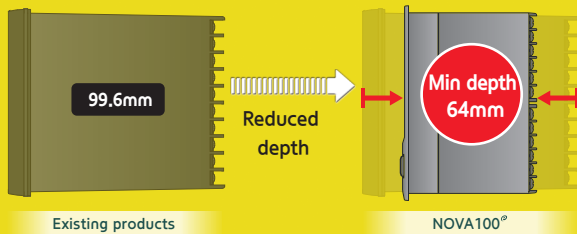
Digital Controller

ST190° / ST180° / ST140°

NOVA100^e is a digital cult roller with easy operation of parameters, operability, economy and reliability.

Compact Size

Compact and space-saving design.



Parameter Management

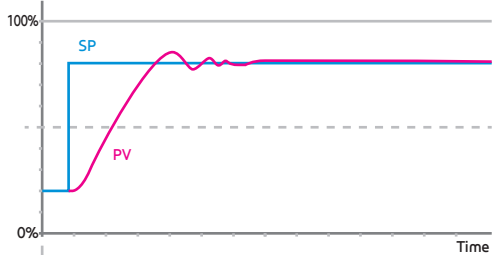
Simple Parameter setting and transition using PC S/W.



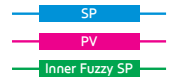
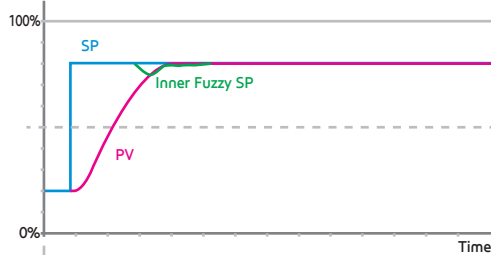
Powfull Fuzzy function(Overshoot control)

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

Fuzzy OFF



Fuzzy ON



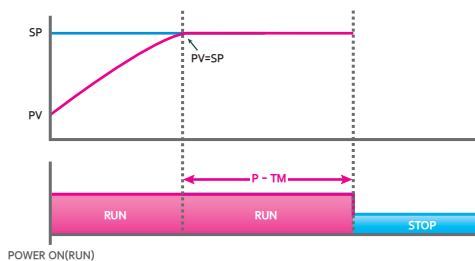
Built-In Reserve function of RUN and STOP

- 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).

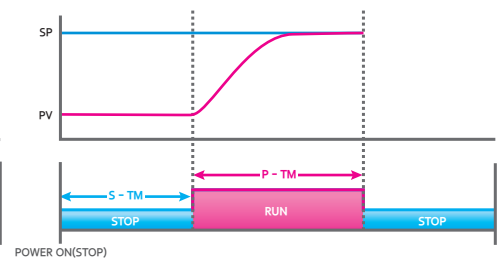
Display in Reserve Function Status



PV=SP mode operation



S-TM mode operation





Reserve function
of Run / End



PID automatic
correction function (AT-G)



Power mode function
(STOP, COLD, HOT)



Alarm output
Max. 2points



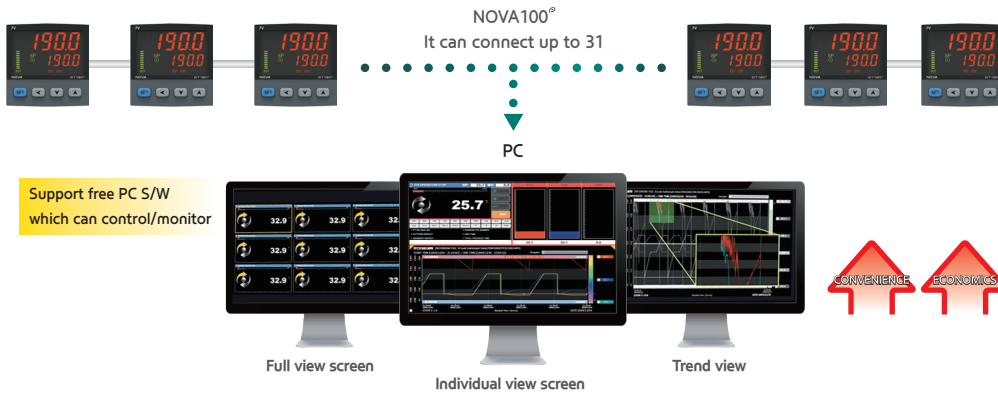
Sensor input
correction function



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.

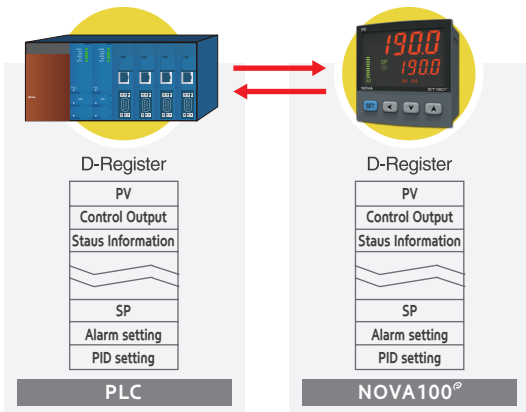


Programless Communication

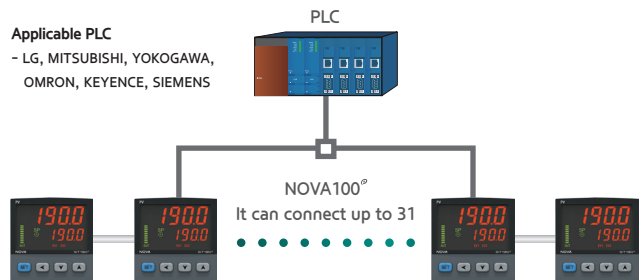
Communicating with PLC without program,
PLC is a communication port can be connected to up to 31 units.

Use PLC user zone(area)

The specified parameters of NOVA100[®] SERIES are automatically stored in the user area of the PLC.



NOVA100[®] starts communication at once connecting cable.



Accuracy
0.2%

18bits
A/D

USER
SCREEN

KC, CE,
IP65

FREE
PC S/W

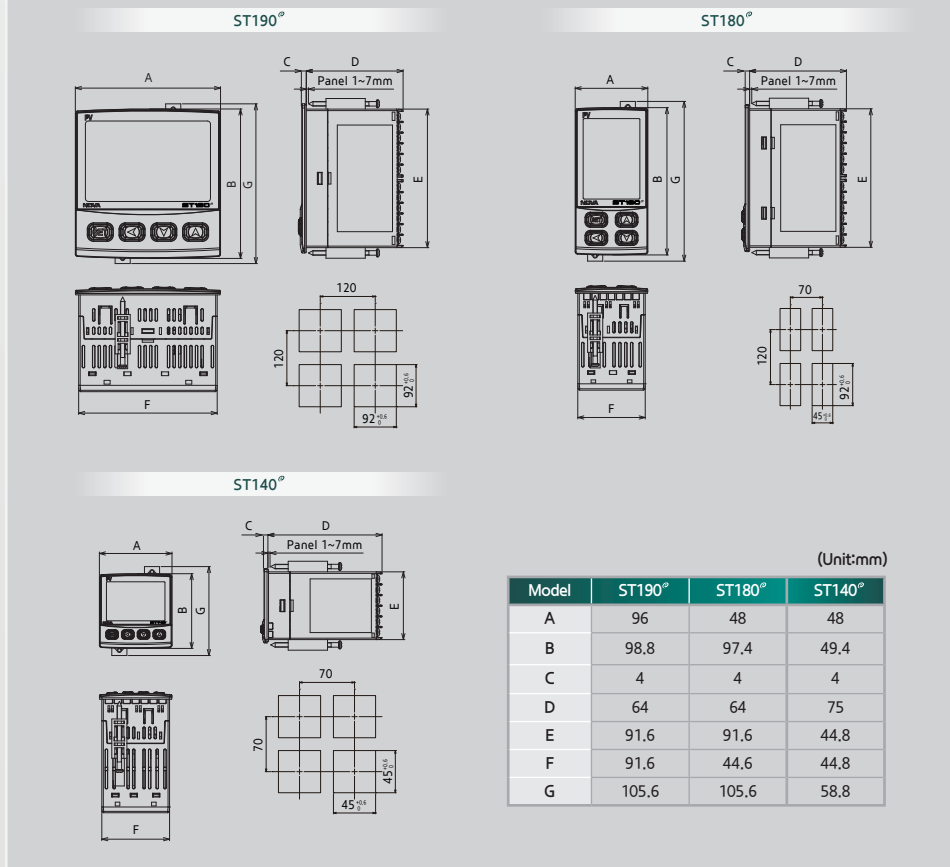
Multi Input
TC, RTD,
DCV

NOVA100^o SERIES Specification table



Model name		ST140 ^o	ST180 ^o	ST190 ^o
Size		48(W) × 48(H) × 79(L)	48(W) × 96(H) × 68(L)	96(W) × 96(H) × 68(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, Platelin II, C		
	RTD	Pt100 (1/100 Displayable), JPt100		
	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	Type	1point		
	Types of output	Control output		
	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	Points	A : 1point + 1point		
	Points types	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, Modbus(ASCII, RTU), Sync(Master, Slave), PLC COMM., Max. 115,200bps		
Power		100~240V AC, 50/60Hz, 10VA Max.		

External and Cutting size



NOVA100^o SERIES Model code

ST1 * 0^o - * 0 / *

Size

4 : 48 * 48 | 8 : 48 * 96 | 9 : 96 * 96

Control output

S : SSR | A : SCR(4~20mA) | R : Relay

Option

RS : RS485 | ALM : Relay 1point



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