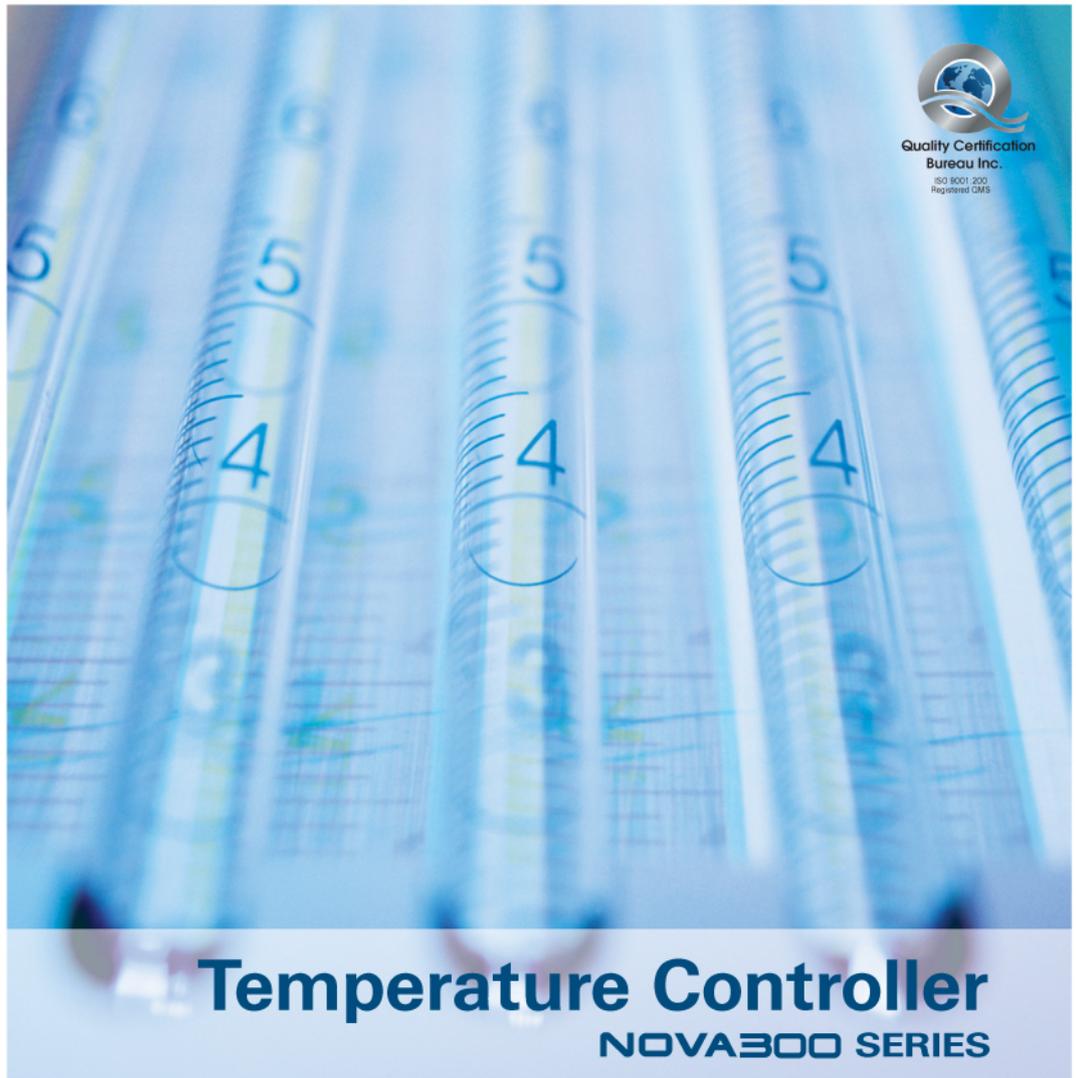
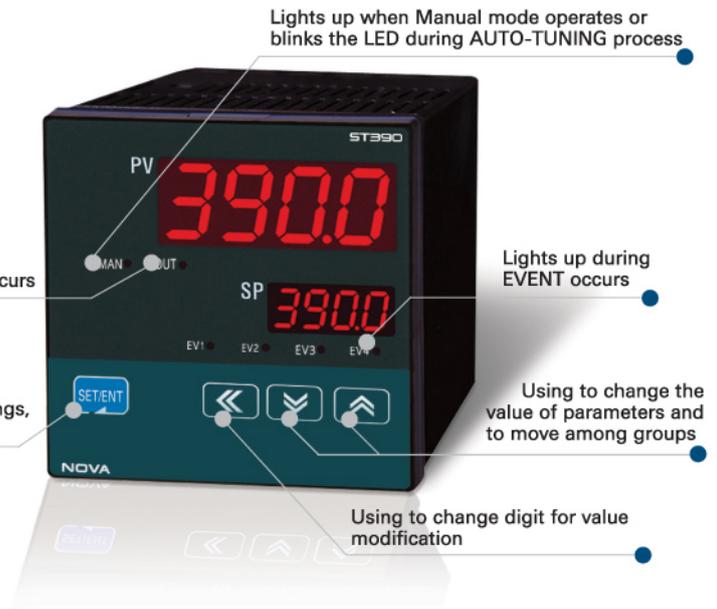


- Precision Control
- Advanced Reliability
- Reliable Price
- Various Communication Protocols
- High Resolution



Your Best Partner!

- ▶ A/D 18 Bits High Resolution - A/D 18 Bits
- ▶ Various Communication Protocols
 - PC Link, MODBUS, SYNC Master, Slave
- ▶ PID Control with Reduced Overshoot
- ▶ Multi Input - T/C, RTD, DCV
- ▶ Controlling and monitoring Controller with PC
- ▶ Advanced PID Algorithm
 - with built-in Auto-tuning Function
- ▶ Available Function to protect Over-shoot
- ▶ 2 Points Alarm Output as Standard Option
- ▶ Powerful Communication
 - and 31 Sets Multi-drop Function
- ▶ Free Operation Program



Specifications

Item	ST340/360/370/380/390	RT390	SD360 / SD390 / RD390	RS390
PV/SP Display	Each 4Digits		Each 4 Digits	
Sampling Time	250ms		250ms	
Accuracy	±0.2% of FS		±0.2% of FS	
Control Loops and Mode	Single-Loop Control		-	
Running Mode	Auto / Manual		-	
Number of SetPoint	1 SP (1 Zone PID)		-	
Input	Type	Universal Input (1 Point)	Universal Input (1 Point)	
	Sensor	T/C	K, J, E, T, R, B, S, L, N, U, W, Platinel II	K, J, E, T, R, B, S, L, N, U, W, Platinel II
		RTD	Pt100, JPt100	Pt100, JPt100
		DCV	-10 ~ 20mV, 0 ~ 100mV, 0.4 ~ 2.0VDC, 1 ~ 5VDC, 0 ~ 10VDC (4 ~ 20mA, 0 ~ 20mA, External Resistance 250 Ω, 500 Ω)	-10 ~ 20mV, 0 ~ 100mV, 0.4 ~ 2.0VDC, 1 ~ 5VDC, 0 ~ 10VDC (4 ~ 20mA, 0 ~ 20mA, External Resistance 250 Ω, 500 Ω)
Control Output	Type	1 Point	-	-
	Kind	Relay, SSR(V-Pulse), SCR(4~20mADC)	-	-
Alarm	Capacity	STD 2 Points / Max 4 Points *note1	1 Point	STD 2 Points / Max 4 Points *note3
	Types	21 Types - High/Low Temp Limit, Deviation Limit...*note2		8 Types - High/Low Temp Limit Deviation Limit...
Retransmission Output Type	Type	1 Point	-	2 Points
	Kind	4 ~ 20mA(PV, SP, MV) or Loop Power Supply	-	4 ~ 20mA(PV, SP, MV) or Loop Power Supply
Communication Protocols	PC-Link, MODBUS(ASCII, RTU), SYNC Master, Slave		PC-Link, MODBUS(ASCII, RTU)	
Power Supply and Consumption	100 ~ 240VAC, 50 ~ 60Hz / Max. 6W below		100 ~ 240VAC, 50 ~ 60Hz / Max. 6W below	
Model	Suffix Code	Description		
ST340/360/370/380/390 SD360/390 RT/RD/RS390	- □□□	Digital Controller	Digital Indicator	Digital Signal Converter
Type	S	SSR	-	-
	A	SCR(4~20mA)	-	-
	R	RELAY	-	-
	0	-	Standard	-
	1st Control	A	-	-
	B	-	-	0~20mA
	1	-	-	0~100mV
	2	-	-	0~10V
	3	-	-	0~5V
	4	-	-	1~5V
2nd Control	A	-	-	4~20mA
	B	-	-	0~20mA
	1	-	-	0~100mV
	2	-	-	0~10V
	3	-	-	0~5V
	4	-	-	1~5V
	0	-	-	NOT USE
Power	0	100~240VAC	100~240VAC	100~240VAC
	1	24VDC	24VDC	24VDC
Options	/RET	Retransmission Output *note4	-	Retransmission Output *note4
	/RS	RS422/485 *note4	RS422/485	RS422/485 *note4
	/HBA	Heater Breaking Alarm *note4	Heater Breaking Alarm	-
	/ALM3	Relay Output 1 Point *note5	-	Relay Output 1 Point *note5
	/ALM4	Relay Output 1 Point *note4,*note5	-	Relay Output 1 Point *note4,*note5

*note1 : ST340,360,380 - Max 2 Points

*note2 : In case of HBA Option - 22 Types

*note3 : SD360 - Max 2 Points, RD390 - 1 Point

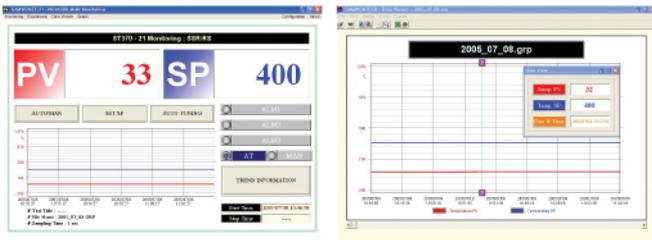
*note4 : RET, RS, HBA, ALM4 to be purchased separately(RS/HBA Available use)

*note5 : It can not use at ST340,360,380, SD360, RD390

*RD390 : Available Additional Option Only RS

Special Features

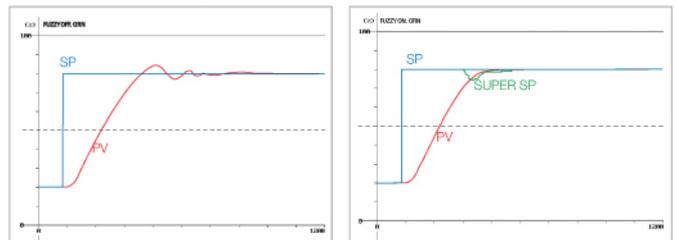
Free Application Program



▲ Application Program Main Screen ▲ Application Program Graph Screen

User can control and monitor NOVA300 with free operation program on PC, it is improved convenience and economy.

Powerful Fuzzy Function



▲ General Control ▲ General Control

It is a effective control function about overshoot in case of serious load alternation or frequent changing SP system.

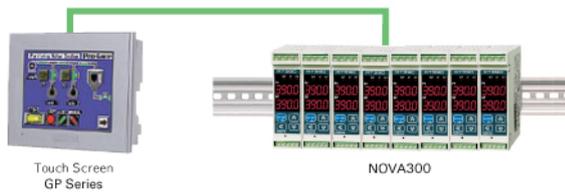
Powerful Communication Function



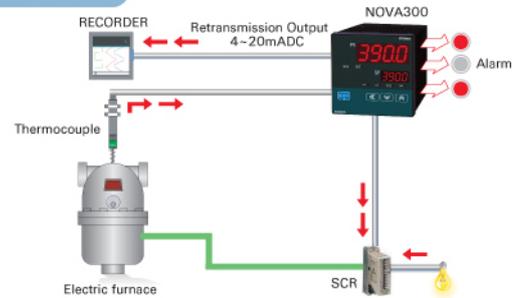
PROTOCOL - PC LINK.
 MODBUS(ASCII, RTU), SYNC Master, Slave
 Max 1.2Km with RS485, Max 31 Sets Multi-drop

Example

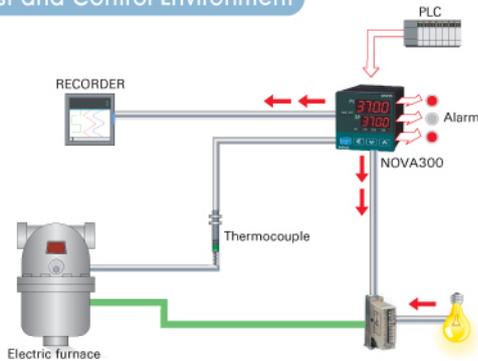
1. Din Rail Type



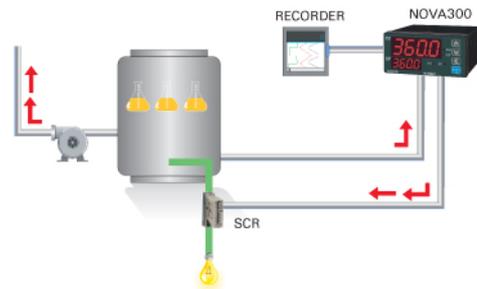
2. Electric Furnace



3. Test and Control Environment



4. Sterilization Temperature Control



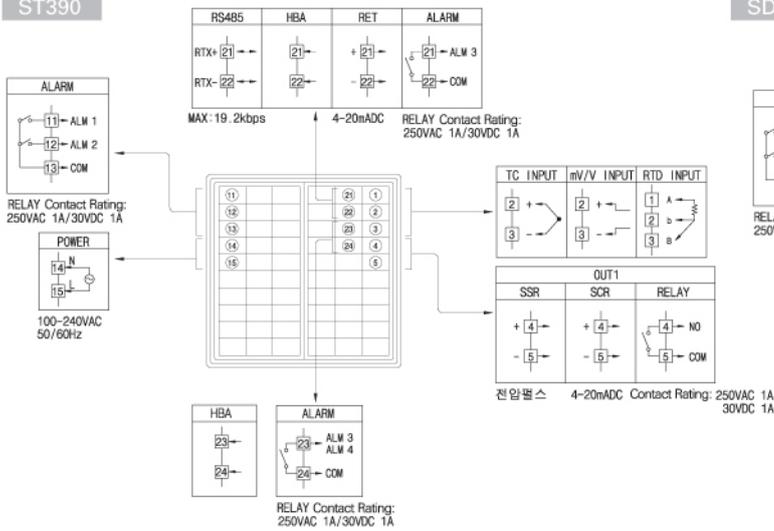
5. Soldering Machine Control



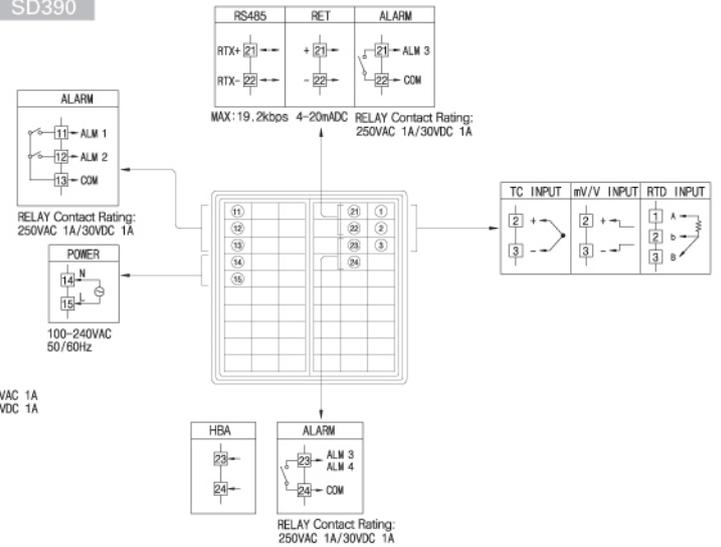


● Terminal Arrangement and Extension Wiring

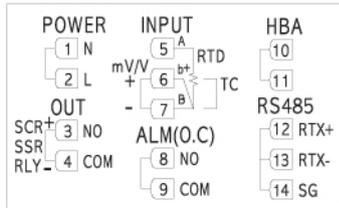
ST390



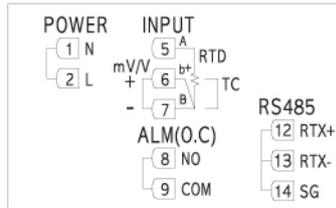
SD390



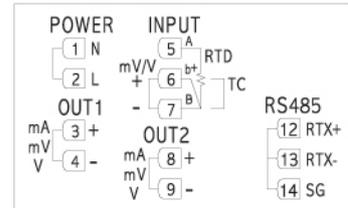
RT390



RD390

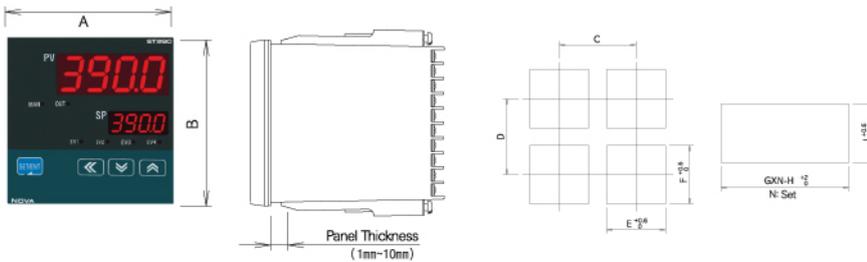


RS390



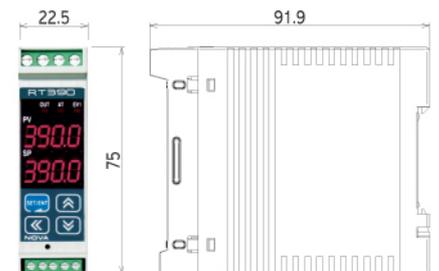
● SIZE Dimension and Panel cutout SIZE

ST/SD Series



MODEL	A	B	C	D	E	F	G	H	I
ST390	96	96	120	120	92	92	96	4	92
ST380	48	96	70	120	45	92	48	3	92
ST370	72	72	90	90	68	68	71	3	68
ST360	96	48	120	70	92	45	-	-	-
ST340	48	48	70	70	45	45	48	3	45
SD390	96	96	120	120	92	92	96	4	92
SD360	96	48	120	70	92	45	-	-	-

RT/RD/RS 390



CAUTION Before using this product, read the appended user's manual carefully to ensure proper and safe operation.



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