



G.TMR(Timer group)					
Symbol	Parameter	Setting Range	Unit	Initial	Remark
#n.TMS	Timer source	OFF, RUN, D1, D2 (Note)	ABS	OFF	Always
#n.TMT	Timer source	DLY1, DLY2, FLK1, FLK2	ABS	DLY1	Always
#n.TMU	Timer time unit	HH:MM, MM:SS	ABS	MM:SS	Always
#n.TM1	Timer time 1	00.00 ~ 99.59 (#n.TMU)	#n.TMU	00.00	Always
#n.TM2	Timer time 2	00.00 ~ 99.59 (#n.TMU)	#n.TMU	00.00	Always

※ #n: 1~2 ※ Note 1: If set DISL=3, can set D1, 2

G.HBA(HBA group)					
Symbol	Parameter	Setting Range	Unit	Initial	Remark
HB.CD	Heater break current display	Display only	ABS	-	HBA option
HB.CS	Heater break alarm current	OFF, 1 ~ 50A	ABS	OFF	HBA option
HB.DB	Heater break alarm deadband	0 ~ 10A	ABS	1	HBA option
PWRF	Power frequency	60Hz, 50Hz	ABS	60Hz	HBA option
CT.R	Current trans ratio	800, 1000	ABS	800	HBA option
B.GRP	Bar graph	MV, CUR	ABS	MV	HBA option
HB.BH	Heater break bar high	0 ~ 50	ABS	50	B,GRP=CUR
HB.BL	Heater break bar low	(HB.BL < HB.BH)	ABS	0	B,GRP=CUR

G.LBA(LBA group)					
Symbol	Parameter	Setting Range	Unit	Initial	Remark
LBA.U	Loop break alarm use	OFF, ON	ABS	OFF	Always
LBA.D	Loop break alarm dead band	EUS(0.0~100.0)	EUS	EUS(0.0%)	Always
LBA.T	Loop break alarm time	1 ~ 7200 sec	ABS	480	Always

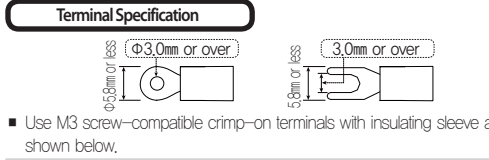
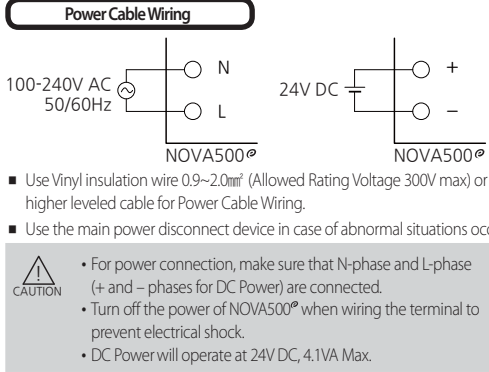
G.RET(Retransmission group)					
Symbol	Parameter	Setting Range	Unit	Initial	Remark
RET	Retransmission type	LPS, PV, SP, MV, V.VP (V.VP: Position proportional)	ABS	PV	Always
RETH	Retransmission high limit	TC, RTD: IN,RL ~ IN,RH DCV: IN,SL ~ IN,SH (RET.L < RET.H.)	EU	IN,RH (TC,RTD) IN,SH (DCV)	RET.T = PV or SP
RETL	Retransmission low limit				

G.COM(Communication group)					
Symbol	Parameter	Setting Range	Unit	Initial	Remark
COMP	Communication protocol	PCC0, PCC1, MBS,A MES,R, SYNM, P,OMR, P,MIT, P,LG, P,YKO, P,KEN, P,SIE	ABS	PCC1	Option
BAUD	Baud rate	9600, 19200, 38.4K, 57.6K, 115.2K	ABS	38.4K	Option
PRTY	Parity	NONE, EVEN, ODD	ABS	NONE	Option
S.BIT	Stop bit	1, 2	ABS	1	Option
D.LEN	Data length	7, 8	ABS	8	Option and COMP = PCC0, PCC1 SYNM
ADDR	Address	1 ~ 99 (Max 31 can connect)	ABS	1	Option
RPTM	Response time	0 ~ 10 (x10ms)	ABS	0	Option

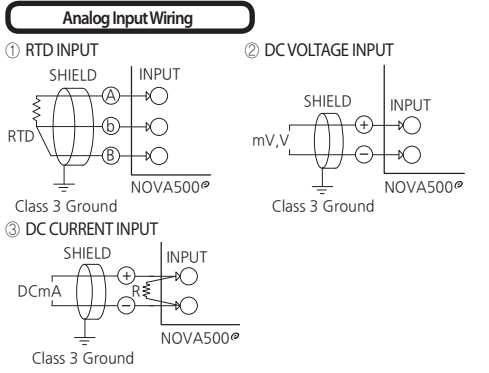
※ For the communication settings to apply, turn off and on device

G.PL(PLC group)					
Symbol	Parameter	Setting Range	Unit	Initial	Remark
SW.TM	Send delay time	0~50	ABS	10.0	COMP =PLC
RW.TM	Receive delay time	500~1000	ABS	1000	COMP =PLC
MU.NO	Max number of connections	1~31	ABS	1.0	COMP =PLC
R.TYP	Register type	0~3	ABS	0	COMP =PLC
S.ADR	Start address	0~FFFF	ABS	03E8	COMP =PLC
MAPS	Data map select	MAS,M, LOC,M	ABS	MAS,M	COMP =PLC
RO.01	Read address 01	OFF, 0~200	ABS	151	COMP =PLC
⋮	⋮	⋮	⋮	⋮	⋮
RO.13	Read address 13	OFF, 0~200	ABS	OFF	COMP =PLC
RW.01	Write address 01	OFF, 0~150	ABS	1	COMP =PLC
⋮	⋮	⋮	⋮	⋮	⋮
RW.15	Write address 15	OFF, 0~150	ABS	OFF	COMP =PLC

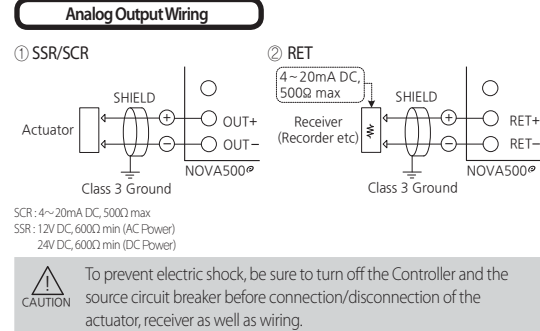
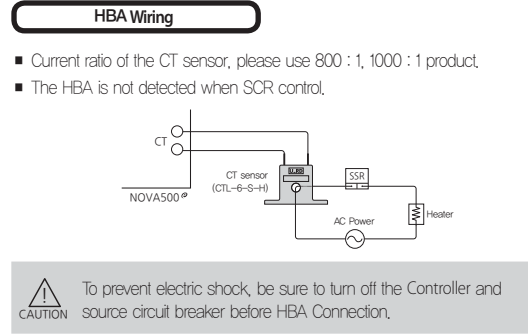
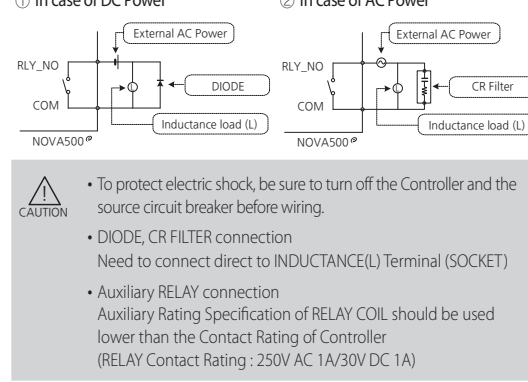
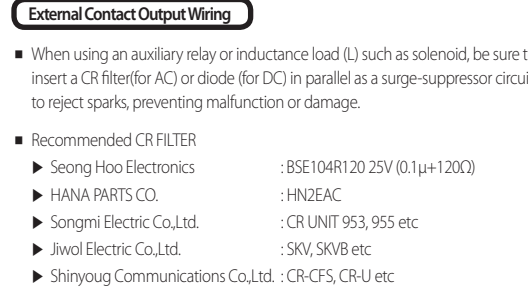
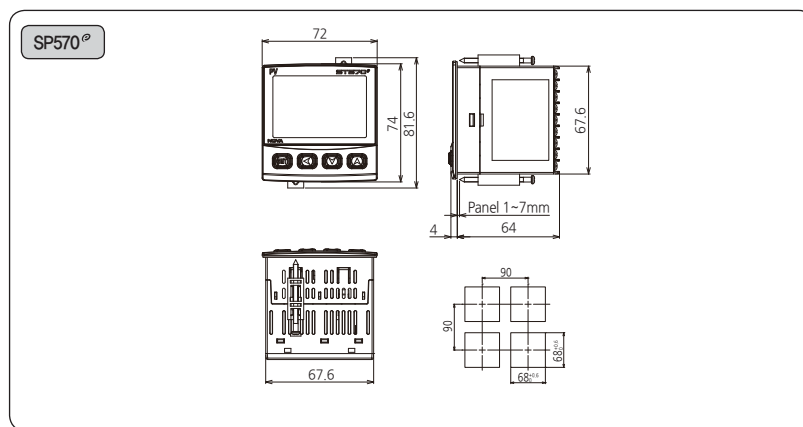
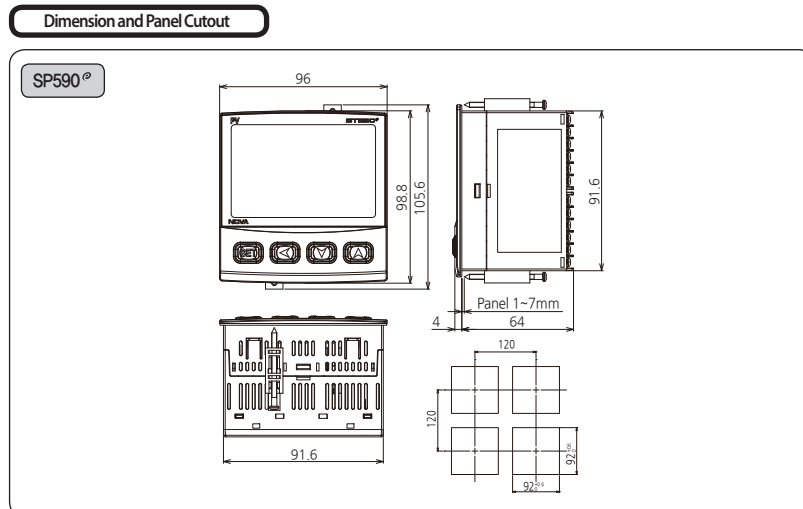
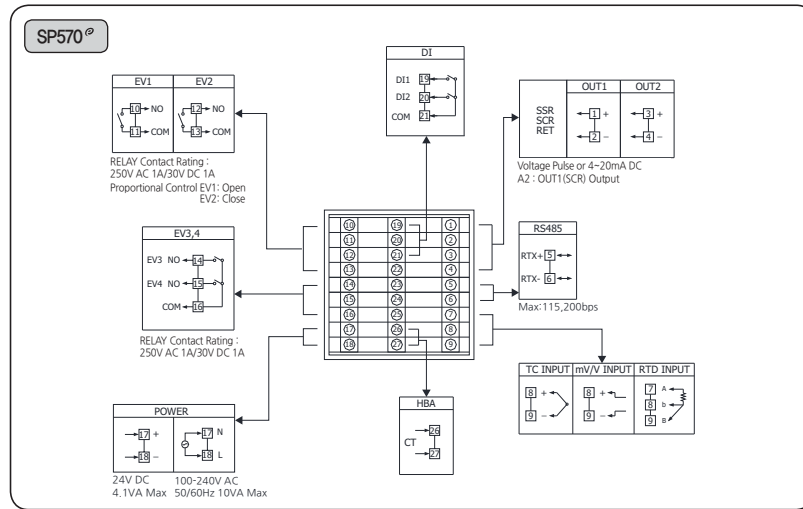
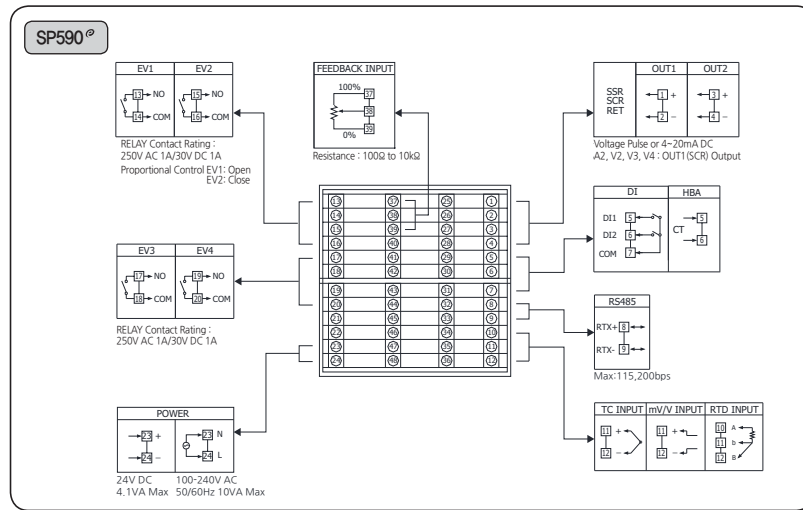
G.NPL(Now PLC Read group)					
Symbol	Parameter	Setting Range	Unit	Initial	Remark
N.SWT	Now send delay time	Reading area	ABS	0	COMP =PLC
N.RWT	Now receive delay time	Reading area	ABS	0	COMP =PLC
N.RTY	Now register type	Reading area	ABS	0	COMP =PLC
N.SAD	Now start address	Reading area	ABS	0	COMP =PLC
N.O01	Now read address 01	Reading area	ABS	OFF	COMP =PLC
⋮	⋮	⋮	⋮	⋮	⋮
N.O13	Now read address 13	Reading area	ABS	OFF	COMP =PLC
N.W01	Now write address 01	Reading area	ABS	OFF	COMP =PLC
⋮	⋮	⋮	⋮	⋮	⋮
N.W15	Now write address 15	Reading area	ABS	OFF	COMP =PLC



CAUTION: Never touch the terminal in the rear panel to prevent electric shock when power is supplied to the controller, and Be sure to turn off the electric power before wiring. Bind the wires connected to the controller terminals neatly together in order to prevent electromagnetic wave radiation.



### Terminal Arrangement and External wiring



### Display Error and Correction

Display ERROR	ERROR Contents	Correction
ESYS	EEPROM, Data Loss	Ask Repair
ERJC	RJC Sensor Failure	Ask Repair
Flash Decimal point of SP	Communication Failure	Check Comm Cable
S.OPN	Sensor Open	Check Sensor
EAT	AT Time Out (27h over)	Check Process
V.OPN	Valve Feedback input burnout	Check the feedback input
V.CER	Automatic valve calibration error	Check Valve Process

