



Symbol	Parameter	Setting Range	Unit	Initial	Remark
1.JST	Inner signal type 1	NSP, NPV, TSP	ABS	NPV	Always
1.ISB	Inner signal band 1	LBD, O,BD	ABS	LBD	Always
1.ISH	Inner signal range high 1	EU(0.0 ~ 100.0%) (1.SL ≤ 1.SH)	EU	EU(0.0%)	Always
1.ISL	Inner signal range low 1	EU(0.0 ~ 100.0%) (2.SL ≤ 2.SH)	EU	EU(0.0%)	Always
1.ISD	Inner signal delay 1	OFF, 0.01 ~ 99.99 (mms)	TIME	OFF	Always
2.JST	Inner signal type 2	NSP, NPV, TSP	ABS	NPV	Always
2.ISB	Inner signal band 2	LBD, O,BD	ABS	LBD	Always
2.ISH	Inner signal range high 2	EU(0.0 ~ 100.0%) (2.SL ≤ 2.SH)	EU	EU(0.0%)	Always
2.ISL	Inner signal range low 2	EU(0.0 ~ 100.0%) (2.SL ≤ 2.SH)	EU	EU(0.0%)	Always
2.ISD	Inner signal delay 2	OFF, 0.01 ~ 99.99 (mms)	TIME	OFF	Always

Symbol	Parameter	Setting Range	Unit	Initial	Remark
#n.TMS	Timer source	OFF, RUN, D1, D2 (Note1)	ABS	OFF	Always
#n.TMT	Timer source	DLY1, DLY2, FLK1, FLK2, SOAK	ABS	DLY1	Always
#n.TMU	Timer time unit	HL,MM,MM,SS	ABS	MM,SS	Always
#n.TM1	Timer time 1	00.00 ~ 99.99 (#n.TMU)	#n.TMU	00.00	Always
#n.TM2	Timer time 2	00.00 ~ 99.99 (#n.TMU)	#n.TMU	00.00	Always

\* #: 1~2      \* Note 1: if set DISL=3, can set D1, 2

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
CTR	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

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

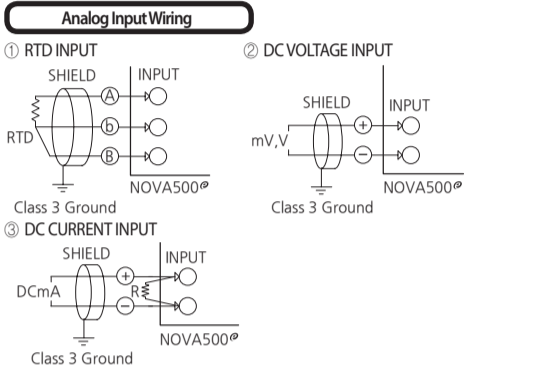
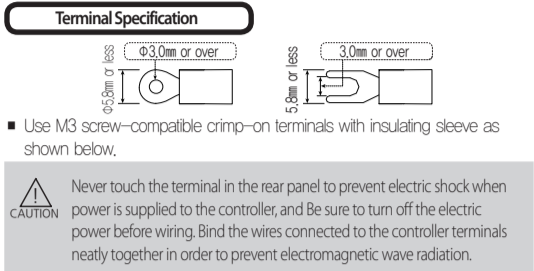
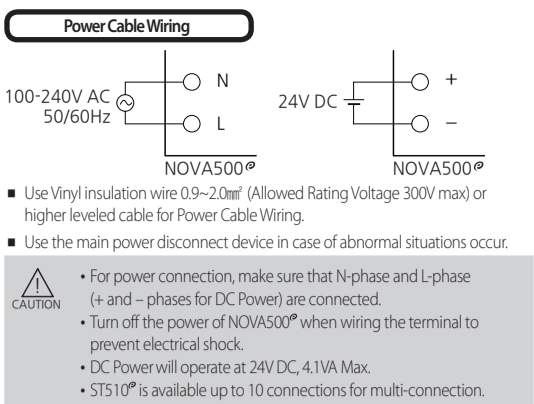
Symbol	Parameter	Setting Range	Unit	Initial	Remark
RET	Retransmission type	LPS, PV, SP, MV, VVP (VVP: Position proportional)	ABS	PV	Always
RET.H	Retransmission high limit	TC, RTD: IN,RL ~ IN,RH DCV: IN,SL ~ IN,SH (RETL (RET.H))	EU	IN,RH (TC,RTD) IN,SH (DCV)	RET.T = PV or SP
RETL	Retransmission low limit				

Symbol	Parameter	Setting Range	Unit	Initial	Remark
COMP	Communication protocol	PCC0, PCC1, MBSA, MBS,R SY,N,M, SY,N,S, P,OMR, P,MT, P,LG, P,YKO, P,KEN, P,SE	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 SY,N,M
ADDR	Address	1 ~ 99 (Max 31 can connect)	ABS	1	Option
RPTM	Response time	0 ~ 10 (x10ms)	ABS	0	Option
RBS	Remote bias SP	EUS(-100.0 ~ 100.0%)	EUS	EUS(0.0%)	Option and COMP = SY,N,S

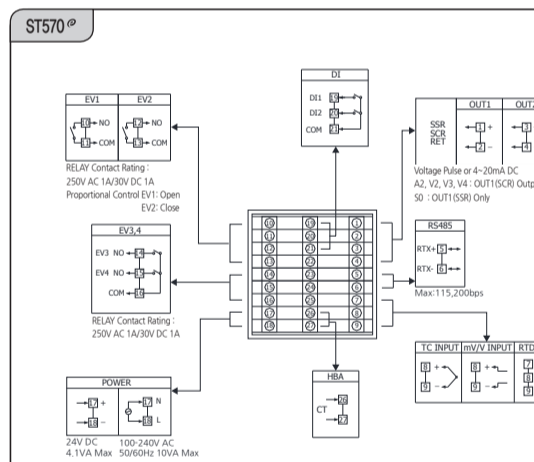
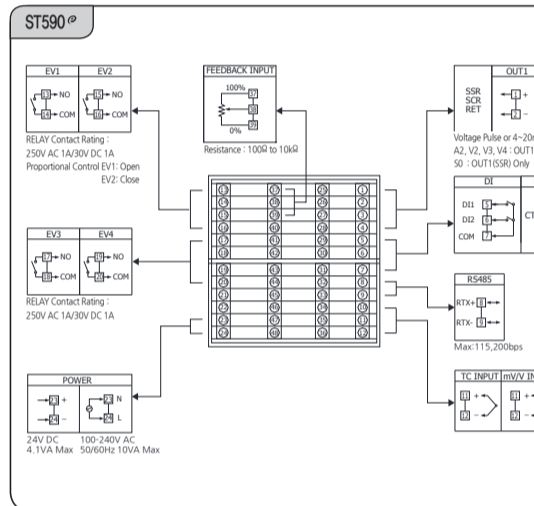
\* For the communication settings to apply, turn off and on device

Symbol	Parameter	Setting Range	Unit	Initial	Remark
SW.TM	Send delay time	0~50	ABS	10	COMP = PLC
RW.TM	Receive delay time	500~1000	ABS	1000	COMP = PLC
MU.NO	Max number of connections	1~31	ABS	1	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 1	OFF, 0~200	ABS	151	COMP = PLC
RO.13	Read address 13	OFF, 0~200	ABS	OFF	COMP = PLC
RW.01	Write address 1	OFF, 0~150	ABS	1	COMP = PLC
RW.15	Write address 15	OFF, 0~150	ABS	OFF	COMP = PLC

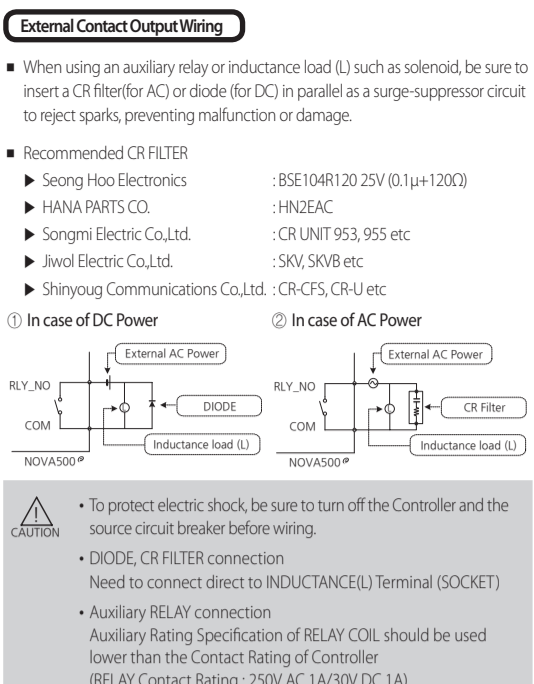
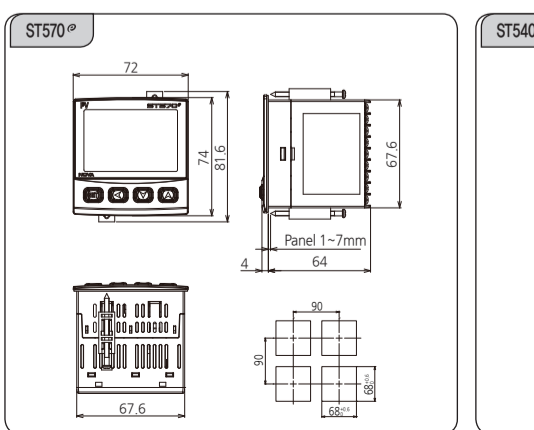
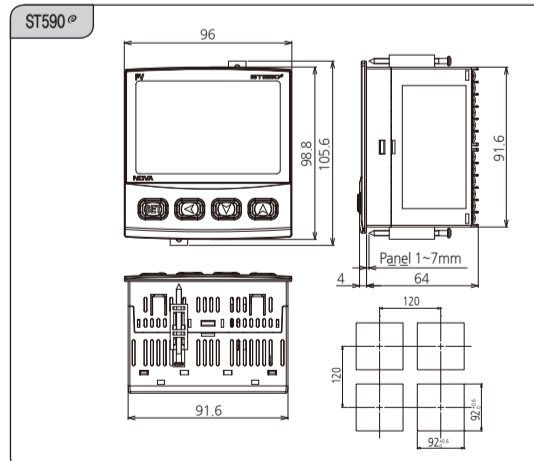
Symbol	Parameter	Setting Range	Unit	Initial	Remark
N.SWT	Now send delay time	Reading area	ABS	0	COMP = PLC
N.RWT	Now receive delay time	Reading area	ABS	0	COMP = PLC
N.RTY	Now register type	Reading area	ABS	0	COMP = PLC
N.SAD	Now start address	Reading area	ABS	0	COMP = PLC
N.O.01	Now read address 1	Reading area	ABS	OFF	COMP = PLC
N.O.13	Now read address 13	Reading area	ABS	OFF	COMP = PLC
N.W.01	Now write address 1	Reading area	ABS	OFF	COMP = PLC
N.W.15	Now write address 15	Reading area	ABS	OFF	COMP = PLC



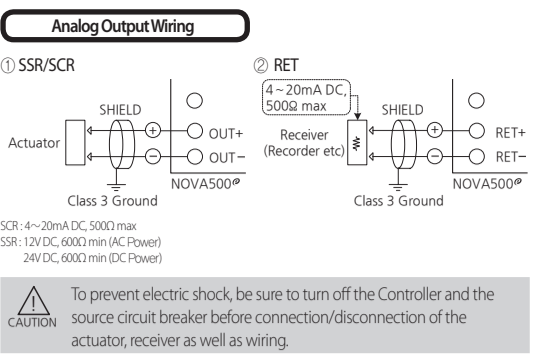
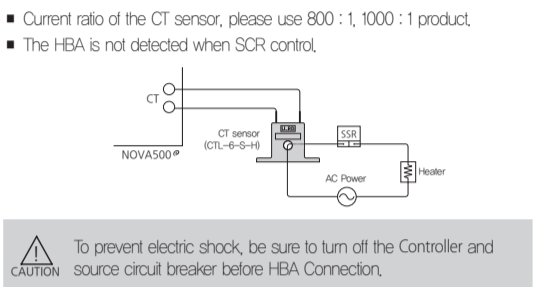
### Terminal Arrangement and External wiring



### Dimension and Panel Cutout



### HBA Wiring



### Display Error and Correction

Display ERROR	ERROR Contents	Correction
E.SYS	EEPROM, Data Loss	Ask Repair
E.RJC	RJC Sensor Failure	Ask Repair
Flash Decimal point of SP	Communication Failure	Check Comm Cable
S.OPN	Sensor Open	Check Sensor
E.AT	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

### Communication Wiring (RS485)

