User's Manual





Notice 仏 Warning

 An external protection device must be installed if failure of this instrument could result in damage to the instrument, equipment or injury to personnel.

· All wiring must be completed before power is turned on to prevent electric shock, fire or damage to instrument and equipment

- This instrument must be used in accordance with the specifications to prevent fire or damage to instrument and equipment.
- This instrument is not intended for use in locations subject to flammable or explosive gases.
- · Do not touch high-voltage connections such as power supply terminals, etc. to avoid electric shock.

 TAIWAN INSTRUMENT & CONTROL Co., Ltd. is not responsible if this instrument is repaired, modified or disassembled by other than factory-approved personnel. Malfunction can occur and warranty is void under these conditions



(2.1 Change Input Type

1.	PV SV	8.8 85 888 6	Display after power-on.	2.	PV SV	8888 8888	Hold SET key + Key 3 seconds, to enter LEVEL_3 upper display showing "INPT" with lower display showing current input type.
3.	PV SV	8882. 8882.	Press Key the lower display flashes.	4.	PV SV	3888 883	Press key and key to enter the intended input type.
5.	PV SV	BAPE BRER	Press SET key to store new value of INPT.	Mo	dify inpu I it need	ut type needs to i Is to recalibration	nterchange of jumper location, for linear input type change.

2.2 SV Setting

1	. pv <i>8.825</i> sv <i>8.888</i>	Display after power-on.	2.	∾ <i>8825</i> ∞ <i>8885</i>	When Key is pressed, the lower display flashes.
з	. pv <i>8825</i> sv <i>0350</i>	Press key and key to adjust set value.	4.	pv <i>8.825</i> sv <i>8.850</i>	Press SET key to store new value of SV.

(2.3 RUN/STOP Mode Selection

	1.	pv <i>8825</i> sv <i>8850</i>	Display after power-on.	2.	pv <i>8885</i> sv <i>5868</i>	Press SET key to enter parameter setup display, with "R_S" shown on the upper display.
:	3.	™ <i>8885</i> sv <i>580</i> €	When key is pressed, the lower display flashes.	4.	pv <i>8885</i> sv <i>8888</i>	Press key or key to select RUN/STOP mode.
4	5.	pv 8895 sv 8888	Press SET key to store new value of R_S.	Wh AL/	en controller is in STOP ARM functions.	mode, it disable OUTPUT and

2.4 Setting PID Value Automatically(Auto-tunning)

1.	pv <i>8.81</i> sv <i>8.81</i>	99 98 Display after	power-on. 2.	PV SV	8 R E 8. 8688	Press SET key to get parameter setup display, as "OFF" will be shown on the upper display.
3.	pv <i>880</i> sv <i>88</i>	When	key is pressed, 4. blay flashes.	PV SV	8 88 8. 8866	Press key or key to select auto tuning execution or not.
5.	pv <i>88.</i> sv <i>88.</i>	Press SET new value of	key to store Wh thro AT. cor	hen auto ough a f ntrol, if fi	-tuning AT LED la ew circles to get r nished the AT LE	imp lit and start to output, iew PID value with the precise D will be lamp off.

2.5 Setting PID Value Manually

1.	pv <i>8829</i> sv <i>8880</i>	Display after power-on.	2.	pv <i>8938</i> sv <i>8830</i>	Hold SET key 3 seconds, then entering into LEVEL_2 upper display showing "P1", with lower display show current P1 value.
3.	pv <i>8838</i> sv <i>8830</i>	When key is pressed, the lower display flashes.	4.	PV 888 SV 8588	Press key and key to set the intended P1 value.
5.	pv 8938 sv 8500	Press ser key to store new value of P1.	By time	the same procedure, use e(I1) and derivative time(e the same ways to set integral D1).

Caution

• This product is intended for use with industrial machines, test and measuring equipment. It is not designed for use with medical equipment and nuclear energy.

- This is a Class A instrument. In a domestic environment, this instrument may cause radio interference, in which case the user may be required to take additional measures.
- . This instrument is protected from electric shock by reinforced insulation. Provide reinforced insulation between the wire for the input signal and the wires for instrument power supply, source of power and loads.
- This instrument is designed for installation in an enclosed instrumentation panel. All high-voltage connections such as power supply terminals must be enclosed in the instrumentation panel to avoid electric shock by operating personnel. • All precautions described in this manual should be taken to avoid damage to the instrument or equipment.
- All wiring must be completed before power is turned on to prevent electric shock, instrument failure, or incorrect action.
- . The power must be turned off before repairing work for input break and output failure including replacement of sensor, contactor or SSR, and all wiring must be completed before power is turned on again.
- · Prevent metal fragments or lead wire scraps from falling inside instrument case to avoid electric shock, fire or malfunction Please use crimp terminals suitable for M3 screws, as shown below;

3.2mm	, 3.2mm	
		Torque : 0.4 N.m (4kgf.cr

 Tighten each terminal screw to the specified torque found in the manual to avoid electric shock, fire or malfunction . When the thermocouple wiring is extended, please use the compensation lead of the corresponding type to this thermocouple

2.6 Controlling With ON/OFF Action

1.	pv <i>8825</i> sv <i>8350</i>	Display after power-on.	2.	pv <i>8838</i> sv <i>8830</i>	Hold SET key 3 seconds, then entering into LEVEL 2, as upper display shows "P1", with lower display showing current P1 value.
3.	pv <i>8888</i> sv <i>8830</i>	When key is pressed, the lower display flashes, upper display.	4.	pv 888 sv 8888	Press key until P1 = 0.0
5.	pv <i>8888</i> sv <i>8888</i>	Press ser key to store new value.	6.	pv <i>R951</i> sv <i>8888</i>	Press SET key to get parameter setup display, "HYS1" shown on the upper display.
7.	∾ <i>8958</i> sv <i>888</i> £	When key is pressed, the lower display flashes.	8.	∾ <i>8951</i> sv <i>83,40</i>	Press key and key to set the intended HYS1 value.
9.	∾ <i>8553</i> sv <i>8830</i>	Press SET key to store new value.	Hea PV : PV : Coo PV :	Heat mode formula: $PV \ge (SV + HYS1) \rightarrow OUT1 OFF$ $PV \le (SV - HYS1) \rightarrow OUT1 ON$ Cool mode formula: $PV \ge (SV + HYS1) \rightarrow OUT1 ON$ $PV \le (SV + HYS1) \rightarrow OUT1 OFF$	

(2.7 Alarm Mode Setting

1.	pv <i>8825</i> sv <i>8880</i>	Display after power-on.	2.	∾ <i>8881</i> sv <i>8881</i>	Hold SET key + Key 3 seconds, then entering into LEVEL_3 upper display showing "INPT" with lower display showing current input type.
3.	pv ACA sv AFR	Press SET key to get parameter setup display, with "ALD1" shown on the upper display.	4.	∾ <i>828</i> sv <i>828</i> ,	When SHIFT key is pressed, the lower display flashes.
5.	₽V 8660 SV 8660	Press key and key to set the intended ALD1 value.	6.	™ RLd ™ dELd	Press SET key to store new value of ALD1.

2.8 Alarm Value Setting

1.	pv <i>8825</i> sv <i>8886</i>	Display after power-on.	2.	pv <i>88.38</i> sv <i>88.88</i>	Press SET key to get parameter setup display, with "AL1H" shown on the upper display.
3.	™ 8638 sv 8000	When key is pressed, the lower display flashes.	4.	₽V 86.38 sv <i>8020</i>	Press key and key to set the intended AL1H value.
5.	∾ <i>8238</i> sv <i>820</i>	Press SET key to store new value of AL1H.			

2.9 Controlling With Manual Control

1.	pv <i>8825</i> sv <i>8858</i>	Display after power-on.	2.	pv 888 sv 8886	Press SET key to get parameter setup display, with "A_M" shown on the upper display.	
3.	pv 829 sv 8060	When key is pressed, the lower display flashes.	4.	pv 889 sv <u>888</u>	Press key or key to select AUTO/MMAN mode.	
5.	PV 829 sv <u>0080</u>	Press SET key to store new value of A_M.	6.	PV 2000 SV 8950	Press SET key to get parameter setup display, with "MOUT" shown on the upper display.	
7.	pv <i>8825</i> sv <i>8856</i>	When Key is pressed, the lower display flashes.	8.	pv <i>8825</i> sv <i>3000</i>	Press key and key to set the intended MOUT value.	
9.	^{pv} 2000 sv 2000	Press SET key to store new value of MOUT.		In manual mode and MOUT=100.0, output=100.0% continuously. In manual mode and MOUT=20.0, output=20.0% continuously.		

3 Flow Chart Of Parameter Setting

3.1 Parameter Structure

The NFY controller is an original dual-loop controller. The parameter group of Level 1~Level 4 is of LOOP type. There are two copies kept in LOOP1 and LOOP2. Level 5 parameter group non-LOOP type is of an independent, linked with Level 4 of LOOP1 or LOOP2, as the parameter structure is shown in the diagram below



3.2 Level Operation Mode

- LEVEL 1 enter to the LEVEL 2 Hold SET key for 3 seconds then
- ntering into LEVEL 2 LEVEL 1 enter to the LEVEL 3 Hold SET key + SHIFT key for 3 seconds then entering into LEVEL 3 2.
- LEVEL 2 return to the LEVEL 1 Hold SET key for 3 seconds then return to LEVEL 1
- 4. LEVEL 2 enter to the LEVEL 3 Hold SET key for 3 seconds then return to LEVEL 3
- LEVEL 1 enter to the LEVEL 4
 Hold SET key for 3 seconds then entering into LEVEL 2, in LEVEL 2
 press SET key to find parameter "LOCK", modify LOCK value from current value to 1111
 then hold SET key + SHIFT key for 3 seconds then entering into LEVEL 4
- LEVEL 2 enter to the LEVEL 5 Hold SET key for 3 seconds then entering into LEVEL 2, in LEVEL 2 press SET key to find parameter "LOCK", modify LOCK value from current then hold SET key + SHIFT key for 3 seconds then entering into LEVEL 5 t value to 1000
- LEVEL 3 return to the LEVEL 1 hold SET key + SHIFT key for 3 seconds then return to LEVEL 1
- LEVEL 3 return to the LEVEL 2 Hold SET key for 3 seconds then return to LEVEL 2 8.



% : If no key is pressed within 60 seconds, it will automatically return to LEVEL 1 (user level) and display PV/SV.

10011	
LOCK	US
0000	
1111	
1000	
0001	
0101	
0110	
Other	

3.4 Data Lock Function

LOCK provides a parameter protection function to prevent the operator from touching or modifying important parameters. Conversely, when the parameter cannot be modified, please check that the set value of LCK.

> Descriptions Level_1 SER Level Level_3 Level_4 INPUT Level SET Level Level 5 Level_2 PID Level QC Level All parameters of Level 1, 2 & 3 are able to be modified (Factory default setting) All parameters of Level 1, 2 & 4 are able to be modified All parameters of Level 1, 2 & 5 are able to be modified 0 0 х х 0 0 0 0 х Х 0 0 O Х Х to be modified Only SV, LOOP, R_S, A_M,LOCK can be modified 0 0 Х Х Х 0 Only LOCK can be modified 0 х Х х Only parameters of Level 1 and LOCK 0 0 х Х Х can be modified Once jumping to other levels, LOCK will be automatically restored to 0000 0 0 0 х х

LEVEL

3.5 Level 1 (User Level) All Parameters Display



* If no key is pressed within 60 seconds, it will automatically return to LEVEL 1 (user level) and display PV/SV

% If no key is pressed within 60 seconds, it will automatically return to LEVEL 1 (user level) and display PV/SV.

3.7 Level 3 (Input Level) All Parameters Display



Press SET key

reserve

RH.PC

3.8 Level 4 (Setting Level) All Parameters Display Level 4 SET6 | RH.PO SV.TY SET7 OU.TY RH.TM SET8 displa PMAC PR.SV SET9 pretune SV FKSL HBOP SETA Output percentag of trigger HBA rameter display BIAS SET1 SETB display TP_K SET2 SETC TMSL SET3 SETD MVRT SET4 SETE display SET5 SETF HYSM RH.TC SET6

o LEVEL 1 (user level) and display PV/SV.						
4.0 Fast F	4.0 Fast Parameter Access					
Any Lev	/el	↓				
Press 3 sec	V key conds					
LPAS		Program execute start address				
MVRT Motor valve traveling time	CH 11.11	REPT Program execute repeat				
HYSM Motor valve action main adjustment	CH 11.11	Program execute power fail protection				
HYS1 Motor valve action sub adjustment	CH 112	↓ LPAS				
PRTO Protocol selection	CH 11.8					
FOMA Data format	CH 11.8					
IDNO Controller address	CH 11.8					
BAUD Baud rate	CH 11.8					
RMAP Registered mapping	CH 11.8					
PTMD Program time format	CH 11.10					
V PVS	т					

 $\,\%\,$ If no key is pressed within 60 seconds, it will automatically return to LEVEL 1 (user level) and display PV/SV.

display

SET7

(3.9 Level 5 (Quality Control) All Parameters Display

SV.TY

Levers	*	*	*	¥
Press SET key	AO.HI	W_MD ¥		D013
HZ	AOCL	RMAP	D04	D14
Power frequency	zero calibration	Registered mapping		
PRTO	AOCH	OPSL	D05	D15
Protocol selection	For retransmission span calibration	distribution		
FOMA	CTRT	POTM	D06	D16
Data format	reserve	Power-on delay time setting value		
IDNO	D1SL	PTMD	D07	D17
Controller address	LOOP1 digital input function selection	Program time format		
BAUD	D2SL	PVST	D08	D18
Baud rate	LOOP2 digital input function selection	Program execute start address		
RPDT	REMO	REPT	D09	D19
Response delay time	Program execute via remote control	Program execute repeat		
AOEN	CJSL	POWF	D10	D20
Retransmission function enable	Cold junction compensation mode	Program execute power fail protection		
AOSL	CJMN	D01	D11	🖌 нz
Retransmission output signal source selection	Manual cold junction temperature setting			~
AO.LO	CJTC	D02	D12	
Retransmission output scale low	Current cold junction temperature display			
AO.HI	W_MD	D03	D13	
Retransmission output scale high	EEPROM protection			
AOCL	▼ RMAP	♥ D04	♥ D014	
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※ If no key is pressed within 60 seconds, it will automatically return to LEVEL 1 (user level) and display PV/SV.

- 4	Parameters Hide/Display Table On Level 4			
	998	9		
	888			
	$\downarrow \downarrow \downarrow \downarrow$	↓ ↓		
SET1	_4 _3 _2	_1		
	SET1_1	0	hide display hide	HBCU HBSV HBIM HBOP HBCU HBSV HBIM HBOP ALIH ALIL
588.8	SET1_2 SET1_3	1	display hide	AL1H AL1L AL2H AL2L
	SET1_4	1 0 1	display hide display	AL2H AL2L AL3H AL3L AL3H AL3L
	SET2 1	0	hide	SV1 SV2
	SET2_2	1 0 1	display hide	SV1 SV2 SV3 SV4
5666	SET2_3	0	hide display	TIM
	SET2_4	0	hide display	(CNT→ LOOP1) (PW→ LOOP2) (CNT→ LOOP1) (PW→ LOOP2)
	SET3_1	0	hide display	CUTM ONTM OFTM CUTM ONTM OFTM
5883	SET3_2	0	hide display	A_M A_M AT
	SET3_3	1	display hide	AT R_S
	0213_4	1	display	
	SET4_1	1 0	display hide	WAIT DTM1 DTM2 DTM3 DTM4
5888	SET4_2	1	display hide	DTM1 DTM2 DTM3 DTM4 DT.ST
	SET4_4	0	hide display	PV1 PV2 PV1 PV2
	SET5 1	0	hide	reserve
0000	SET5_2	1 0 1	hide display	reserve MOLH MOLL MOLH MOLL
2883	SET5_3	0	hide display	reserve reserve
	SET5_4	0	hide display	SOLH SOLL SOLH SOLL
	SET6_1	0	hide display	COUT COUT
5585	SET6_2	0	hide display	AT.VL SS.PO AT.VL SS.PO
	SET6_3	1	display	OPSF RC.TO LOPS L2.SV MOLH
	3E10_4	1	display	LOOP L2.SV MOLH
	SET7_1	0	hide display hide	AN.LO AN.HI DP AN.LO AN.HI DP HIRA IO.RA
5888	SET7_2 SET7_3	1	display hide	HI.RA LO.RA LSPL USPL
	SET7_4	0	hide display	ALD1 ALT1 HYA1 SEA1 ALD1 ALT1 HYA1 SEA1
	SET8 1	0	hide	ALD2 ALT2 HYA2 SEA2
	SET8_2	1 0 1	display hide display	ALD2 ALT2 HYA2 SEA2 ALD3 ALT3 HYA3 SEA3 ALD3 ALT3 HYA3 SEA3
5558	SET8_3	0	hide display	MOCL MOCH MOCL MOCH
	SET8_4	0	hide display	SOCL SOCH SOCL SOCH
	SET9_1	0	hide display	MV.SF MV.SF
5588	SET9_2	0	hide display	RC.TI RC.TI
	SET9_3	1	display hide	UNIT OUTM
	3E19_4	1	display	OUTM
	SETA_1	0	hide display	SV.OS SV.OS
9222	SETA_2	0	hide display	PV.OS PV.OH PV.OS PV.OH
	SETA_3	0	hide display	MLNB COMP OFFS MLNB COMP OFFS
	SETA_4	0	hide display	Super SV function disable Super SV function enable
	SETB_1	0	hide	OU.TY OU.TY
<u>9900</u>	SETB_2	0	hide display	reserve reserve
UUD.0.	SETB_3	0	hide display	FKSL FKSL BASE TP K
	SETB_4	1	display	BASE TP_K
	SETC_1	0	hide display	TMSL TMSL
5888	SETC_2	0	hide display	MVRT HYSM MVRT HYSM RH TC RH PO RH TM
	SETC_3	1	display hide	RH.TC RH.PO RH.TM PR.SV
	3ETC_4	1	display	PR.SV
_	SETD_1	0	hide display hide	PRTO FOMA IDNO BAUD RPDT PRTO FOMA IDNO BAUD RPDT AOEN AOSL AO,LO AO,HI AOCL AOCH
5588 -	SETD_2 SETD_3	1	display hide	AOEN AOSL AO.LO AO.HI AOCL AOCH CTRT DISL D2SL
	SETD_4	1 0 1	hide display	REMO REMO
			opicy	

SETE_1 SETE_2 SETE_3 SETE_4	SETE 1	0	hide	CJSL CJMN CJTC W_MD RMAP OPSL POTM
	SEIE_I	1	display	CJSL CJMN CJTC W_MD RMAP OPSL POTM
	SETE 2	0	hide	D01 D02 D03 D04 D05 D06 D07 D08 D09 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20
	SEIE_2	1	display	D01 D02 D03 D04 D05 D06 D07 D08 D09 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20
	SETE 2	0	hide	reserve
	SEIE_S	1	display	reserve
	SETE A	0	hide	RAMP
	SEIE_4	SEIE_4 1	display	RAMP

	SETF_1	0	valve control close Relay b contact out		
		1	valve control close Relay a contact out		
	SETE 2	0	in abnormal condition MOUT = SS.PO		
0000	SEIF_2	1	n abnormal condition MOUT = 0		
SETF_3	SETE 2	0	PV Hysteresis_mode disable		
	1	PV Hysteresis_mode enable			
	SETE 4	0	disable piece linear compensation function		
SEIF_4		1	enable piece linear compensation function		

S Alarm Mode

There is a dot on the led display for alarm hold action, such as $\rightarrow BBB$ (Deviation high with hold action) When the controller boot completed, the PV is within the alarm range, and no alarm action

will be generated at this time, until the PV exceed alarm range then enter the alarm range again the alarm will be activated.

▲ : SV △ : Alarm set value x : 1 / 2 / 3 (There are up to 3 sets of alarms)

Al	LDX	Index value	Alarm mode	Description
NONE	RARE	0	No alarm function	Not drive any alarm relays and the corresponding LED lamp.
DE.HI	BEB3.	1	Deviation high (With hold action)	Formula PV < (SV + AUXH) > Alarm ON PV < (SV + AUXH) > Alarm ON
DE.LO	8E.8.8.	2	Deviation low (With hold action)	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
DE.HL	88.88.	3	Deviation high/low (With hold action)	$\label{eq:rescaled_rescale} \begin{array}{c c} \hline & & & & & \\ \hline & & & & \\ \hline & & & & \\ \hline & & & &$
BAIND	BRBB	4	Band (With hold action)	$\begin{tabular}{ c c c c c } \hline & & & & & & & & & & & & & & & & & & $
PR.HI	RERS.	5	Process high (With hold action)	Formula $PV \ge ALXH \rightarrow Alarm ON$ $PV \le ALXH \rightarrow Alarm ON$
PR.LO	<i>88.8.8</i>	6	Process low (With hold action)	$\begin{tabular}{ c c c c } \hline & & & & & & & & & & & & & & & & & & $
PEND	REAR	7	Program end	When the program is end, the alarm action This mode only available in program type controller
SYAB	5988	8	System error	The alert action, when PV displays error message
HBA	8888	9	HBA (Heater Break Alarm)	Activated conditions : 1. Heater current(HBCU) is less the HBSV set value 2. OUT1 manipulated value exceed HBOP set value 3. Fit with Condition1 and 2 and exceed set the seconds of HBTM
MSOK	8588	10	soak timer	Boot completed, the alarm is ON. When PV ≿ target SV start the soak timer, alarm and control function are turned OFF in soak time finish please refer to chapter 11.11 RAMP + SOAK
DEHI	BERS.	11	Deviation high	
DELO	8888	12	Deviation low	Formula PV = (SV + ALXH - HYAX) → Alarm OFF
				Formula $PV \leq (SV + ALXL) \Rightarrow Alarm ON$ $PV \geq (SV + ALXL + HYAX) \Rightarrow Alarm OFF$
DEHL	aeae.	13	Deviation high/low	$\begin{array}{c c} \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ $
				Formula $P' \leq [v Y + ALXL + HYAX] \Rightarrow Alarm OFF$ $V \leq [v Y + ALXL + HYAX] \Rightarrow Alarm OFF$ $PV \leq (SV + ALXH - HYAX) \Rightarrow Alarm OFF$ $OFF \bigcirc ON \bigcirc OFF$ $ALXL SV ALXH - HYAX) \Rightarrow Alarm OFF$
BAND	6868	14 Band	$\label{eq:Formula} \begin{array}{l} PV \leq (SV + ALXH) \Rightarrow Alarm ON \\ PV > (SV + ALXH) \Rightarrow Alarm OFF \\ PV \geq (SV + ALXL) \Rightarrow Alarm ON \\ PV < (SV + ALXL) \Rightarrow Alarm OFF \end{array}$	

A	LDX	Index value	Alarm mode	Description	
PRHI	<i>8888.</i>	15	Process high		OFF ALXH
				Formula	$\begin{array}{l} PV \geq ALXH \twoheadrightarrow Alarm \ ON \\ PV \leq (ALXH \text{ - HYAX}) \twoheadrightarrow Alarm \ OFF \end{array}$
PRLO	8888	16	Process low		ON HYSK ALXL OFF
				Formula	$\begin{array}{l} PV \leq ALXL \twoheadrightarrow Alarm \ ON \\ PV \geq (ALXL + HYAX) \twoheadrightarrow Alarm \ OFF \end{array}$
PRUN	8888	17	Program run	When the program is being executed, the alarm action This mode only available in program type controller	
SYNO	5388	18	System normal	The Alert action, when PV normal displays(no error message)	
SOAK	<i>5888</i> .	19	Ramp Soak Timer	Boot completed, the alarm is ON 1. RAMP SV reach target SV 2. PV > target SV When both of the above conditions are true start the soak timer, alarm and control function are turned OFF in soak ti finish (in this function ramp function is necessary)	
ТІМ	88.88	20	Timer	Alarm action in time up 'This mode only available in Digital Input function	
CNT	8888.	21	Counter	Alarm action after counter value is reached "This mode only available in Digital Input function	
CUTM	8888.	22	24H Timer	When CUTM = ONTM, alarm activates When CUTM = OFTM, alarm stops	
FSOK	8588	23	Boot completed, the alarm is OFF: when PV ≥ target SV start the soak timer, ala and the control function keep ON in soak tim		bleted, the alarm is OFF. e target SV start the soak timer, alarm is turned ON introl function keep ON in soak time finish

Alarm Example

Example 1 : Deviation low, the difference between alarm hold action and without alarm hold action, shown in the diagram below



6 Modification Of Input Signal

5.1 Input Modify To Thermocouple

Jumper Plug 2 pcs of Jumper into	Software Setting	
		Parameter set as "INPT=K1~L"

5.2 Input Modify To RTD

Jumper	Software Setting				
Plug 2 pcs of Jumper in	Plug 2 pcs of Jumper into the left slot as shown				
		Parameter set "INPT=PT1~PT3"			

7 Error Message

If controller exhibits any of the following issues, please proceed with the following procedures

Symbol	Error	Solution
BBER	INIE: Input1 Error	Check whether input loop is opened or wiring is incorrect.
8888	UUUU: PV is above USPL	Check whether the input value is correct or not.
BBBB	NNNN: PV is below LSPL	Check whether the input value is correct or not.

If any of the indication in the table below appear, the controller need to be repaired do not try to repair the controller by yourself, order a new one or contact us to repair.

Symbol	Error	Solution
<i>8888</i> .	ADCF: A/D convert failed	Please send for repair.
8.888	CJER: Cold junction compensation failed	Please send for repair.
8888.	RAMF: EEPROM failed	Please send for repair.