

SETTING LIST

Mode	Parameter Name	Setting Range	Unit	Default	Remarks	Setting
Protect	SECr Security	0 to 6	None	1		
	PEYp [A/M] key protect	ON/OFF	None	OFF		
Manual	Manual MV	-5.0 to 105.0 *1	%	0.0		100
	Set point	Set point lower limit to Set point upper limit	EU	0		100
Level 0	r-S Run/Stop	Run/Stop	None	RUN		RUN
	RL AT Execute/Cancel	OFF/AT-1/AT-2	None	OFF	During running	OFF
Level 1	SP-0 Set point 0	Set point lower limit to Set point upper limit	EU	0	Multi-SP	-199.9
	SP-1 Set point 1	Set point lower limit to Set point upper limit	EU	0	Multi-SP	-185
	SP-2 Set point 2	Set point lower limit to Set point upper limit	EU	0	Multi-SP	
	SP-3 Set point 3	Set point lower limit to Set point upper limit	EU	0	Multi-SP	
	RL-1 Alarm value 1	-1999 to 9999	EU	0		12
	RL-2 Alarm value 2	-1999 to 9999	EU	0		22
	RL-3 Alarm value 3	-1999 to 9999	EU	0		32
	p Proportional band	0.1 to 999.9	%FS	10.0		6%
	i Integral time	0 to 3999	sec	233		300
	d Derivative time	0 to 3999	sec	40		65
	C-S Cooling coefficient	0.01 to 99.99	None	1.00	At heating and cooling control	
	C-db Dead band	-19.99 to 99.99	%FS	0.00	At heating and cooling control	
	db Position-proportional dead band	0.1 to 10.0	%	2.0	At position-proportional control	
	OF-r Manual reset value	0.0 to 100.0	%	50.0		
Level 2	HY5 Hysteresis (heat)	0.01 to 99.99	%FS	0.10		
	CHY5 Hysteresis (cool)	0.01 to 99.99	%FS	0.10	At heating and cooling control	
	CP Control period (heat)	1 to 99	sec	20		
	C-CP Control period (cool)	1 to 99	sec	20	At heating and cooling control	
	Hb Heater burnout	0.0 to 50.0	A	0.0	Heater burnout detection	
	r-l Remote/Local	RMT/LCL	None	LCL	Communications unit setting	
	SPnd SP mode	RSP/LSP	None	LSP		
	SPru SP ramp time unit	M(Minutes) / H(Hours)	None	M		
	SPrt SP ramp set value	0 to 9999	EU	0		
	LbA LBA detection time	0 to 9999	Sec	0		
	nu-S MV at stop	-5.0 to 105.0	%	0.0		
	nu-E MV at PV error	-5.0 to 105.0	%	0.0		
	ul-H MV upper limit	MV lower limit + 0.1 to 105.0	%	105.0		
	ul-L MV lower limit	-5.0 to MV upper limit -0.1	%	-5.0		
Level 2	orl MV change rate limit	0.0 to 100.0	%/sec	0.0		
	inf Input digital filter	0 to 9999	sec	0		3
	oc-H Open/close hysteresis	0.1 to 20.0	%	0.8		
	ALH1 Alarm 1 hysteresis	0.01 to 99.99	%	0.02		
	ALH2 Alarm 2 hysteresis	0.01 to 99.99	%	0.02		
	ALH3 Alarm 3 hysteresis	0.01 to 99.99	%	0.02		
	cnSH Input shift upper limit	-199.9 to 999.9	°C/°F	0.0	Temperature input	
Level 2	cnSL Input shift lower limit	-199.9 to 999.9	°C/°F	0.0	Temperature input	

*1 During heat and cooling control, the lower limit becomes -105.0%.

*2 During position-proportional control, the setting becomes HOLD, OPEN or CLOS.

*3 During heat and cooling control, the setting range becomes 0.0 to 105.0%.

SETTING LIST

Mode	Parameter Name	Setting Range	Unit	Default	Remarks	Setting
Setup	Ln-L Input type	0 to 21	None	2		6
	Ln-H Scaling upper limit	Scaling lower limit +1 to 9999 *4	EU	-100	Analog input	
	Ln-L Scaling lower limit	-1999 to SP setting upper limit -0.1*4	EU	0	Analog input	
	dP Decimal point	0 to 3	None	0	Analog input	
	d-U °C/°F selection	°C/°F	None	°C	Temperature input	C
	Ln-L Parameter initialize	Yes/No	None	NO		
	OUT-1 Control output 1 assignment	Heat/Cool/Alarm 1/Alarm 2/Alarm 3 /HBA/LBA	None	HEAT		HEAT
	OUT-2 Control output 2 assignment	Heat/Cool/Alarm 1/Alarm 2/Alarm 3 /HBA/LBA	None	AL-1		AL3
	SUB-1 Auxiliary output 1 assignment	Alarm 1/Alarm 2/Alarm 3/HBA/LBA/ S.ERR/E333/RSE	None	AL-2		AL1
	SUB-2 Auxiliary output 2 assignment	Alarm 1/Alarm 2/Alarm 3/HBA/ LBA/S.ERR/E333/RSE	None	AL-3		AL2
	AL-1 Alarm 1 type	1 to 11	None	2	Output assignment needed	1
	AL-1 Alarm 1 open in alarm	N-O/N-C	None	N-O	Output assignment needed	NC
	AL-2 Alarm 2 type	1 to 11	None	2	Output assignment needed	1
	AL-2 Alarm 2 open in alarm	N-O/N-C	None	N-O	Output assignment needed	NC
	AL-3 Alarm 3 type	1 to 11	None	2	Output assignment needed	1
	AL-3 Alarm 3 open in alarm	N-O/N-C	None	N-O	Output assignment needed	NC
	OR-E Direct/Reverse operation	OR-R/OR-D	None	OR-R		D
	SL-H Set point upper limit	Set point lower limit +1 to scaling upper limit *2	None	1300 *4		
	SL-L Set point lower limit	Scaling lower limit to Set point upper limit -1 *2	None	-200 *4		
	Ln-L PID/ON/OFF	PID / ON/OFF	None	PID		
Expansion	SE ST	OFF/ON	None	OFF		
	SE-b ST stable range	0.1 to 999.9	°C/°F	15.0	ST=ON	
	ALFR α	0.00 to 1.00	None	0.65		
	RE-U AT calculated gain	0.1 to 10.0	None	1.0		
	RESE Standby sequence reset setting method	0/1	None	0		
	RE Automatic return of display mode	0 to 99	Sec	0		
	RE-H AT hysteresis	0.1 to 9.9	%FS	0.2		
	LBA LBA detection width	0.0 to 999.9	%FS	0.2		

*4 When temperature input is selected, the sensor range selected in the "input type" parameter (setup mode) corresponds to the scaling upper and lower limit value.

APPENDIX

Mode	Parameter Name	Setting Range	Unit	Default	Remarks	Setting
Option	E u - 0 Multi-SP function	0 to 2	None	0		/
	E u - 1 Event input assignment 1	NON/STOP/RMT/MAN/RSP	None	NON		
	E u - 2 Event input assignment 2	NON/STOP/RMT/MAN/RSP	None	NON		
	E u - 3 Event input assignment 3	NON/STOP/RMT/MAN/RSP	None	STOP		
	E u - 4 Event input assignment 4	NON/STOP/RMT/MAN/RSP	None	MAN		
	S b c k Communication stop bit	1/2	bits	2		
	L E n Communication data length	7/8	bits	7		
	P r e y Communication parity	None/Even/Odd	None	EVEN		
	b P S Communication baud rate	1,2/2,4/4,8/9,6/19,2	kbps	9.6		
	U - n a Communication unit No.	0 to 99	None	0		
	t r - t Transfer output type	SP/SP-M/PV/O/C-O/V-M	None	SP		
	t r - H Transfer output upper limit	*5	*5	*5		
	t r - L Transfer output lower limit	*5	*5	*5		
	H b L HBA latch	ON/OFF	None	OFF		
	C A L b Motor calibration	ON/OFF	None	OFF		
	n a t Travel time	1 to 999	Sec	1		
	P - d b PV dead band	0 to 9999	EU	0		
	r S P U Remote SP enable	ON/OFF	None	OFF		
	r S P H Remote SP upper limit	SP setting lower limit to SP setting upper limit	EU	1300		
	r S P L Remote SP lower limit	SP setting lower limit to SP setting upper limit	EU	-200		
	S P t r SP tracking	ON/OFF	None	OFF		

*5 Set the transfer output type parameter according to the following table.

Transfer Output Type	Transfer Output Lower Limit to Transfer Output Upper Limit
SP :Set point	Set point lower limit to Set point upper limit
SP-M :Set point during SP ramp	Set point lower limit to Set point upper limit
PV :Process value	Scaling lower limit to scaling upper limit
O :Manipulated variable (heat)	-5.0 to 105.0%
C-O :Manipulated variable (cool)	0.0 to 105.0%
V-M :Value opening	-10.0 to 110.0%

- Default : SP
- The output ranges of the SP setting, set point or process value when temperature input is selected are the ranges supported by the selected sensor.
- When the heating side manipulated variable or cooling side manipulated variable is selected, the transfer output lower limit in a heating and cooling control becomes "0.0".

LEAD B

110 2-290 10
3-292 9

DC+ 8-300 8

DC- 9 316 7

2ND 11 220 26

SP 12 221 24 com

18 296

LI 31 225 4
32 224 3

FL 2 34 223 2
35 222 1

↑ wire #

↑ Eupatorium #

LEAD A

110 AC 1-289 10
3-291 9

DC+ 5-280 8

DC- 6-299 7

2ND 202 26
SP 203 24

ALI 31 207 4
32 206 3

AL 2 34 205 2
35 204 1

↑ OMEN #