

SETTING LIST

LEAD

HEATERS

5/04

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	%	0.0		
	Set point	Set point lower limit to Set point upper limit	EU	0		
Level 0	r - 5 Run/Stop	Run/Stop	None	RUN		
	RL AT Execute/Cancel	OFF/AT-1/AT-2	None	OFF	During running	
Level 1	SP-0 Set point 0	Set point lower limit to Set point upper limit	EU	0	Multi-SP	
	SP-1 Set point 1	Set point lower limit to Set point upper limit	EU	0	Multi-SP	
	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		15
	RL-2 Alarm value 2	-1999 to 9999	EU	0		15
	RL-3 Alarm value 3	-1999 to 9999	EU	0		
	P Proportional band	0.1 to 999.9	%FS	10.0		40
	I Integral time	0 to 3999	sec	233		20
	D Derivative time	0 to 3999	sec	40		0
	C-SC 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	
Level 2	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		
	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		
Level 2	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		
	ol-H MV upper limit	MV lower limit + 0.1 to 105.0	%	105.0		
	ol-L MV lower limit	-5.0 to MV upper limit -0.1	%	-5.0		
	orl MV change rate limit	0.0 to 100.0	%/sec	0.0		
	Inf Input digital filter	0 to 9999	sec	0		
	ol-H Open/close hysteresis	0.1 to 20.0	%	0.8		
	RLH1 Alarm 1 hysteresis	0.01 to 99.99	%	0.02		
	RLH2 Alarm 2 hysteresis	0.01 to 99.99	%	0.02		
	RLH3 Alarm 3 hysteresis	0.01 to 99.99	%	0.02		
	lnSH Input shift upper limit	-199.9 to 999.9	°C/F	0.0	Temperature input	
	lnSL 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%.
 During position-proportional control, the setting becomes HOLD, OPEN or CLOS.
 *2 During heat and cooling control, the setting range becomes 0.0 to 105.0%.
 *3 During heat and cooling control, the setting range becomes -105.0 to 0.0%.

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Mode	Parameter Name	Setting Range	Unit	Default	Remarks	Setting
Setup	U0-E Input type	0 to 21	None	2		6
	U0-H Scaling upper limit	Scaling lower limit +1 to 9999 *4	EU	-100	Analog input	
	U0-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	
	U-U °C/°F selection	°C/°F	None	°C	Temperature input	C
	U0-E Parameter initialize	Yes/No	None	NO		
	OU0-1 Control output 1 assignment	Heat/Cool/Alarm 1/Alarm 2/Alarm 3 /HBA/LBA	None	HEAT		H
	OU0-2 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/RSER	None	AL-2		AL1
	SUB-2 Auxiliary output 2 assignment	Alarm 1/Alarm 2/Alarm 3/HBA/ LBA/S.ERR/E333/RSER	None	AL-3		AL2
	AL0-1 Alarm 1 type	1 to 11	None	2	Output assignment needed	1
	AL1-1 Alarm 1 open in alarm	N-O/N-C	None	N-O	Output assignment needed	NC
	AL0-2 Alarm 2 type	1 to 11	None	2	Output assignment needed	1
	AL2-1 Alarm 2 open in alarm	N-O/N-C	None	N-O	Output assignment needed	NC
	AL0-3 Alarm 3 type	1 to 11	None	2	Output assignment needed	1
Expansion	AL3-1 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		R
	SL-H Set point upper limit	Set point lower limit +1 to scaling upper limit *2	None	1300 *4		40
	SL-L Set point lower limit	Scaling lower limit to Set point upper limit -1 *2	None	-200 *4		-10
	EN-E PID/ON/OFF	PID / ON/OFF	None	PID		PID
	SE ST	OFF/ON	None	OFF		
	SE-b ST stable range	0.1 to 999.9	°C/°F	15.0	ST=ON	
	AL-FR α	0.00 to 1.00	None	0.65		
	AL-U AT calculated gain	0.1 to 10.0	None	1.0		
	RES- Standby sequence reset setting method	0/1	None	0		
	RET Automatic return of display mode	0 to 99	Sec	0		
	AL-H AT hysteresis	0.1 to 9.9	%FS	0.2		
	LBA-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.