Honeywell

For Limit Controller see page 3.

For detailed instructions see UDC2500 Controller Product Manual 51-52-25-127.

Step 1. Model Number Interpretation

Write your controller model number in the boxes. Then refer to Tables I, II, and III and circle the corresponding options to identify your controller's features. A dot indicates the feature is available.





Sten 4	Configuration	Procedure
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Step	Operation	Press	Result
1	Enter Set Up Mode	Setup	Upper Display = SET Lower Display = TUNING (This is the first Set Up Group title)
2	Select any Set Up Group	Setup	Sequentially displays the other Set Up group titles shown in the prompt hierarchy. (See 5. Configuration Record Sheet for prompts.) You can also use the for y keys to scan the Set Up groups in both directions. Stop at the Set Up group title that describes the group of parameters you want to configure. Then proceed to the next step.
3	Select a Function Parameter	Function	Upper Display = the current value or selection for the first function prompt of the selected Set Up group. Lower Display = the first Function prompt within that Set Up group. Sequentially displays the other function prompts of the Set Up group you have selected. Stop at the function prompt that you want to change, then proceed to the next step.
4	Change the Value or Selection	∧ or ∨	Increments or decrements the value or selection that appears for the selected function prompt. If you change the value or selection of a parameter while in Set Up mode then decide not to enter it, press M-A RESET] once—the original value or selection is recalled.
5	Enter the Value or Selection	Function	Enters value or selection made into memory after another key is pressed.
6	Exit Configuration	Lower Display	Exits configuration mode and returns controller to the same state it was in immediately preceding entry into the Set Up mode. It stores any changes you have made. If you do not press any keys for 30 seconds, the controller times out and reverts to the mode and display used prior to entry into Set Up mode.

Step 5. Configuration Record Sheet

Group Prompt	or selection for each prompt on this s	Value or Selection	e a record of how Factory Setting	Group Prompt	Function Prompt	Value or Selection	Factory
TUNING	PB or GAIN RATE T I MIN or I RPM MANRST PB2 or GAIN 2 RATE2T I2 MIN or I2 RPM CYCT1 or CT1 X3 CYC2T2 or CT2 X3 SECUR LOCK AUTOMA A TUNE RN HLD SP SEL		1.0 0.00 1.0 1.0 0.0 0.00 1.0 20 20 20 20 0 NONE ENAB ENAB ENAB ENAB	INPUT2	IN2TYP LIN IN2 HI IN2 LO RATIO2 BIAS 2 FILTR2		1-5V LIN 2400 0 0.0 1.00 1.0
SPRAMP	SPRAMP TI MIN FINLSP SPRATE EUHRUP EUHRDN SPPROG		DIS 3 1000 DIS 0 DIS DIS	CONTRL	PIDSET SW VAL LSP'S RSPSRC SP TRK PWR UP PWROUT SP Hi SP Lo ACTION OUT Hi OUT Hi OUT Hi OUT Hi OUT Lo D BAND HYST FAILSF FSMODE PBOGN MINRPM		ONE 0.00 ONE NONE AUTO FSAF 2400 0 REV 100 0 2.0 0.5 0.0 NOL GAIN MIN
ATUNE	FUZZY TUNE DUPLEX AT ERR		DIS TUNE MAN 	OPTION	AUXOUT ARANGE 0 PCT 100 PCT DIG IN 1 DIG1 COM DIG IN 2 DIG2 COM		DIS 4-20 0 NONE DIS NONE DIS
ALGOR	CTRALG TIMER PERIOD START L DISP RESET INCRMT		PIDA DIS 0:01 KEY TREM KEY MIN	Сом	ComSTA ComADD SDENAB IRENAB SHOTIM BAUD TX_DLY WS_FLT SDMODE SHDSP UNITS CSRATO CSP_BI		Disable O Enable Enable O 9600 30 FP_B Last LSP PCT 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
OUTALG	OUTALG CRANGE RLY TY MTRTI		(MOXL) 4-20 MECH 5	ALARMS	LOOPPACK ATSITY ATSIVA ATSIHL ATSIEV ATS2VA ATS2VA ATS2VA ATS2EV ASSITY ASSITVA A2STHL A2STHL A2STHL A2STEV A2STY A2S2VA A2S2VA A2S2VA A2S2EV A2S2EV ALHYST ALARM1 BLOCK DIAGAL		NONE 90 HIGH BEGN NONE 90 HIGH BEGN NONE 90 HIGH BEGN NONE 90 HIGH BEGN NONE 90 DIS
INPUT1	INITYP XMITR1 INI HI INI LO RATIO1 BIAS 1 FILTR1 BRNOUT EMIS		KH LIN 2400 0 1.00 0.0 1.0 UP 1.0	DISPLY	DECMAL UNITS FREQ DISPLY LWRDSP LNGUAG TCDIAG		NONE F 60 SP ENAB ENGL ENAB

(Ethernet Addresses accessible via PIE tool)

Step 6. Start Up Procedure for Operation

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Single Display Step	Dual Display Step	Operation	Press	Result			
1	1	Configure controller	Setup	Make sure the controller has been configured properly and that all the values and selections have been recorded on the Configuration Record Sheet. See steps 4 & 5.			
	2	Select Manual Mode	M-A Reset	N/A for Single Display Model Until "M" indicator is ON. The controller is in manual mode.			
	3	Adjust the Output	Cor	N/A for Single Display Model To adjust the output value and ensure that the final control element is functioning correctly. Upper Display = Pv Value Lower Display = OT and the output value in %			
	4	Select Automatic Mode	M-A Reset	N/A for Single Display Model Until 'A" indicator is ON. The controller is in Automatic mode. The controller will automatically adjust the output to maintain the process variable at setpoint.			

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Single Display Step	Dual Display Step	Operation	Press	Result	
2	5	Enter the Local Setpoint	Lower Display	Upper Display = Pv Value Lower Display = SP and the Local Setpoint Value	
			∽or	To adjust the local setpoint to the value at which you want the process variable maintained. The local setpoint cannot be changed if the Setpoint Ramp function is running.	
3	6	Tune the Controller	Setup	Use Accutune to tune the controller; see product manual for detailed procedure or refer to Tuning Set Up group to set that the selections for PB or GAIN, RATE T, and I MIN or I RPM.	

For detailed instructions see UDC2500 Limit Controller Product Manual 51-52-25-118.

Step 1. Model Number Interpretation

Write your controller model number in the boxes. Then refer to Tables I, II, and III and circle the corresponding options to identify your controller's features. A dot indicates the feature is available.



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Step 4. Configuration Procedure

Input 2

Step	Operation	Press	Result
1	Enter Set Up Mode	Setup	Upper Display = SET Lower Display = LOCK (This is the first Set Up Group title)
2	Select any Set Up Group	Setup	Sequentially displays the other Set Up group titles shown in the prompt hierarchy. (See 5. Configuration Record Sheet for prompts.) You can also use the for the keys to scan the Set Up groups in both directions. Stop at the Set Up group title that describes the group of parameters you want to configure. Then proceed to the next step.
3	Select a Function Parameter	Function	Upper Display = the current value or selection for the first function prompt of the selected Set Up group. Lower Display = the first Function prompt within that Set Up group. Sequentially displays the other function prompts of the Set Up group you have selected. Stop at the function prompt that you want to change, then proceed to the next step.
4	Change the Value or Selection	∧ or	Increments or decrements the value or selection that appears for the selected function prompt. If you change the value or selection of a parameter while in Set Up mode then decide not to enter it, press M-A/RESET once—the original value or selection is recalled.
5	Enter the Value or Selection	Function	Enters value or selection made into memory after another key is pressed.
6	Exit Configuration	Lower Display	Exits configuration mode and returns controller to the same state it was in immediately preceding entry into the Set Up mode. It stores any changes you have made. If you do not press any keys for 30 seconds, the controller times out and reverts to the mode and display used prior to entry into Set Up mode.

Step 5. Configuration Record Sheet

Enter the value or selection for each prompt on this sheet so you will have a record of how your controller was configured.

Group Prompt	Function Prompt	Value or Selection	Factory Setting	Group Prompt	Function Prompt	Value or Selection	Factory Setting
LOCK	SECUR LOCK		DIS CAL	сом	ComADR ComSTA IRENAB SDENAB		3 DIS ENAB ENAB
LIMIT	LOW or HIGH POWRUP SP MAX SP MIN DISPLY		HIGH NORM 1000 0 PROC		SHDTIM BAUD TX DLY WS FLT UNITS LOOPBK		0 19200 30 FP_B PCT DIS
INPUT1	IN1TYP XMITR1 IN1 HI IN1 LO BIAS 1 FILTR1 BRNOUT EMIS		KH LIN 2400 1.00 0.0 1.0 UP 1.0	ALARMS	A1S1TY A1S1VA A1S1HL A1S2TY A1S2VA A1S2HL A2S1TY A2S1VA		NONE 90 HIGH NONE 90 HIGH NONE 90
OPTIONS	AUXOUT 0 PCT 100 PCT CRANGE DIGIN1		DIS 0 100 4-20 DIS		A2S1HL A2S2TY A2S2VA A2S2HL ALHYST ALARM1 BLOCK DIAGAL		HIGH NONE 90 HIGH 0.1 NOL DIS DIS
				DISPLY	DECML UNITS FREQ LWRDSP TCDIAG		NONE F 60 ENAB ENAB

Step 6. Start Up Procedure for Operation

Single Display	Operation	Press	Result
Step	-		
1	Display setpoint	Lower Display	Press the "Lower Display" key till SP appears.
2	Enter the Limit Setpoint	or	Set the SP, using the Up & Down arrow keys, to the desired Limit Setpoint
3	Store the limit setpoint	Lower Display	Press the "Lower Display" to store the value.
4	If the display flashes "Limit"	M-A Reset	Press the Auto-Man/ Reset key.