

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.

Key Number	Table I	Table II	Table III	X X X X X - X X
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**KEY NUMBER - UDC2500 Single Loop Controller**

Description	Selection	Availability
Digital Controller for use with 90 to 264Vac Power	DC2500	↓
Digital Controller for use with 24Vac/dc Power	DC2501	↓

**TABLE I - Specify Control Output and/or Alarms**

Output #1	Description
	Electro Mechanical Relay (5 Amp Form C) Solid State Relay (1 Amp) Open Collector transistor output
Output #2 and Alarm #1 or Alarms 1 and 2	No Additional Outputs or Alarms One Alarm Relay Only E-M Relay (5 Amp Form C) Plus Alarm 1 (5 Amp Form C Relay) Solid State Relay (1 Amp) Plus Alarm 1 (5 Amp Form C Relay) Open Collector Plus Alarm 1 (5 Amp Form C Relay)

Availability  
DC 2500 2501

Selection	DC 2500	2501
E _	•	•
A _	•	•
T _	•	•
_ 0	•	•
_ B	•	•
_ E	•	•
_ A	•	•
_ T	•	•

**TABLE II - Communications and Software Selections**

Communications	Description
	None Auxiliary Output/Digital Inputs (1 Aux and 1 DI or 2 DI) RS-485 Modbus Plus Auxiliary Output/Digital Inputs 10 Base-T Ethernet (Modbus RTU) Plus Auxiliary Output/Digital Inputs
Software Selections	Limit Controller
Reserved	No Selection
Infrared interface	None Infrared Interface Included (Can be used with a Pocket PC)

Availability  
DC 2500 2501

Selection	DC 2500	2501
0 _ _	•	•
1 _ _	•	•
2 _ _	•	•
3 _ _	•	•
_ L	•	•
_ _ 0	•	•
_ _ 0	•	•
_ _ R	•	•

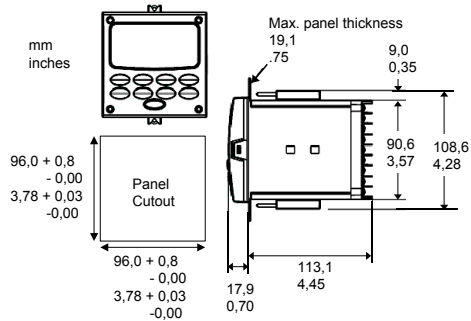
**TABLE III - Input 1 can be changed in the field using external resistors**

Input	Description
Input 1	TC, RTD, mV, 0-5V, 1-5V TC, RTD, mV, 0-5V, 1-5V, 0-20mA, 4-20mA TC, RTD, mV, 0-5V, 1-5V, 0-20mA, 4-20mA, 0-10V
Input 2	None

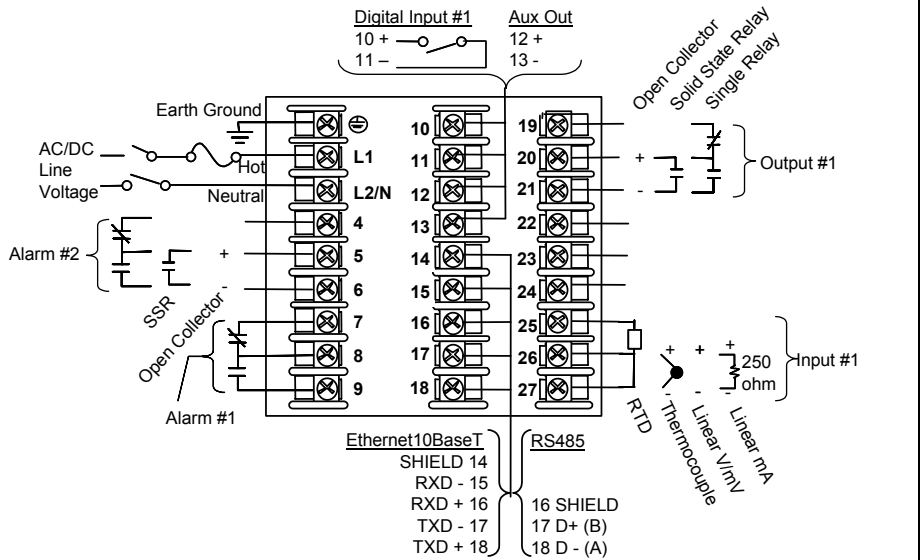
Availability  
DC 2500 2501

Selection	DC 2500	2501
1 _ _	•	•
2 _ _	•	•
3 _ _	•	•
_ 00	•	•

**Step 2. Dimensions and mounting**



**Step 3. Wiring**



**Step 4. Configuration Procedure**

Step	Operation	Press	Result
1	Enter Set Up Mode	SET UP	Upper Display = SET Lower Display = LOCK (This is the first Set Up Group title)
2	Select any Set Up Group	SET UP	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 ▲ or ▼ 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 [MAN-AUTO/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	_____	DIS	COM	ComADR	_____	3
	LOCK	_____	CAL		ComSTA	_____	DIS
LIMIT	LOW or HIGH	_____	HIGH		IRENAB	_____	ENAB
	POWRUP	_____	NORM		SDENAB	_____	ENAB
	SP MAX	_____	1000		SHDTIM	_____	0
	SP MIN	_____	0		BAUD	_____	19200
	DISPLY	_____	PROC		TX DLY	_____	30
INPUT1	IN1TYP	_____	KH		WS FLT	_____	FP_B
	XMITR1	_____	LIN		UNITS	_____	PCT
	IN1 HI	_____	2400		LOOPBK	_____	DIS
	IN1 LO	_____	1.00	ALARMS	A1S1VA	_____	90
	BIAS 1	_____	0.0		A1S2VA	_____	90
	FILTR1	_____	1.0		A2S1VA	_____	90
	BRNOUT	_____	UP		A2S2VA	_____	90
EMIS	_____	1.0	A1S1TY		_____	NONE	
OPTIONS	AUXOUT	_____	DIS		A1S1TY	_____	NONE
	0 PCT	_____	0		A2S1TY	_____	NONE
	100 PCT	_____	100	A2S2TY	_____	NONE	
	DIGIN1	_____	DIS	A1S1HL	_____	HIGH	
				A1S2HL	_____	HIGH	
			A2S1HL	_____	HIGH		
			A2S2HL	_____	HIGH		
			ALHYST	_____	0.1		
			ALARM1	_____	NOL		
			BLOCK	_____	DIS		
			DISPLY	DECML	_____	NONE	
				UNITS	_____	F	
				FREQ	_____	60	

**Step 6. Start Up Procedure for Operation**

Single Displa Step	Operation	Press	Result
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.