Honeywell

UDC2500 Universal Digital Controller

Model Selection Guide with Price Data

Model Selection Guide
51-51-16-79   Issue 14

Honeywell Proprietary

New! Easy To Use UDC2500 1/4 DIN Single Loop Controller

The UDC2500 Controller packs new powerful features while retaining all the simplicity, flexibility and the industry standard HMI of the UDC2300 Controller that it replaces.
Many new optional features include:

- NEMA 4X, IP66 Front Face
- Built-in infrared communications port for configuring with a Pocket PC or Laptop
- PC Based Configuration Tools
- Ethernet Communications
- Limit Model Available
- Thermocouple Health Monitoring
- Accutune III (Fast/Slow, Heat/Cool)

UDC2500 Controller

Instructions

- Select the desired key number. The arrow to the right marks the selection available.
- Make the desired selections from Tables I through VI using the column below the proper arrow.   A dot (•) denotes availability.

Key Number	I	II	III	IV	V	VI
_ _ _ _ _ _	_ _	_ _ _ _	_ _ _	_ _ _ _ _	_ _	_

List Price equals the sum of prices for all selections made.

KEY NUMBER - UDC2500 Single Loop Controller

Description	Selection	Availability		If Applicable Stocking P/N	U.S.$
Digital Controller for use with 90 to 264Vac Power	DC2500	↓			420
Digital Controller for use with 24Vac/dc Power	DC2501		↓		480

TABLE I - Specify Control Output and/or Alarms

	Description	Selection	Availability			U.S.$
Output #1	None (Can be used as an indicator only)	0 _	•	•		0
	Current Output (4 to 20ma, 0 to 20 ma)	C _	•	•		34
	Electro Mechanical Relay (5 Amp Form C)	E _	•	•		0
	Solid State Relay (1 Amp)	A _	•	•		0
	Open Collector transistor output	T _	•	•		18
	Dual 2 Amp Relays (Both are Form A) (Heat/Cool Applications)	R _	•	•		57
Output #2 and Alarm #1 or Alarms 1 and 2	No Additional Outputs or Alarms	_ 0	•	•		0
	One Alarm Relay Only	_ B	•	•		34
	E-M Relay (5 Amp Form C) Plus Alarm 1 (5 Amp Form C Relay)	_ E	•	•		68
	Solid State Relay (1 Amp) Plus Alarm 1 (5 Amp Form C Relay)	_ A	•	•		68
	Open Collector Plus Alarm 1 (5 Amp Form C Relay)	_ T	•	•		85

TABLE II - Communications and Software Selections

	Description	Selection	Availability			U.S.$
Communications	None	0 _ _ _	•	•		0
	Auxiliary Output/Digital Inputs (1 Aux and 1 DI or 2 DI)	1 _ _ _	•	•		120
	RS-485 Modbus Plus Auxiliary Output/Digital Inputs	2 _ _ _	•	•		175
	10 Base-T Ethernet (Modbus RTU) Plus Auxiliary Output/Digital Inputs	3 _ _ _	•	•		195
Software Selections	Standard Functions, Single Display	_ 0 _ _	•	•		0
	Dual Display with Auto/Manual	_ A _ _	•	•		28
	Set Point Programming (12 Segments) Dual Display, Auto/Manual	_ B _ _	•	•		100
	Limit Controller (Includes Dual Display Option)	_ L _ _	a	a		12
Reserved	No Selection	_ _ 0 _	•	•		0
Infrared interface	None	_ _ _ 0	•	•		0
	Infrared Interface Included (Can be used with a Pocket PC)	_ _ _ R	•	•		30

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

		Selection	Availability DC 2500	Availability DC 2501	If Applicable Stocking P/N	U.S.$
Input 1	TC, RTD, mV, 0-5V, 1-5V	1 _ _	•	•		0
	TC, RTD, mV, 0-5V, 1-5V, 0-20mA, 4-20mA	2 _ _	•	•		0
	TC, RTD, mV, 0-5V, 1-5V, 0-20mA, 4-20mA, 0-10V	3 _ _	•	•		45
Input 2	None	_ 00	•	•		0
	0-5V, 1-5V, 0-20mA, 4-20mA	_ 10	b	b		120

TABLE IV - Options

		Selection	DC 2500	DC 2501	Stocking P/N	U.S.$
Approvals	CE, UL and CSA (Standard)	0 _ _ _ _	•	•		0
	CE, UL, CSA and FM	1 _ _ _ _	c	c		33
	CE Only	2 _ _ _ _	•	•		0
Tags	None	_ 0 _ _ _	•	•		0
	Stainless Steel Customer ID Tag - 3 lines w/22 characters/line	_ T _ _ _	•	•		45
Future Options	None	_ _ 0 _ _	•	•		0
	None	_ _ _ 0 _	•	•		0
	None	_ _ _ _ 0	•	•		0

TABLE V - Product Manuals

			Selection	DC 2500	DC 2501	Stocking P/N	U.S.$
Manuals	Product Information on CD - English		0 _	•	•		0
	English (Hard Copy) Manual	(51-52-25-127)	E _	•	•		12
	French (Hard Copy) Manual	(51-52-25-127-FR)	F _	b	b		12
	German (Hard Copy) Manual	(51-52-25-127-DE)	G _	b	b		12
	Italian (Hard Copy) Manual	(51-52-25-127-IT)	I _				
	Spanish (Hard Copy) Manual	(51-52-25-127-SP)	S _	b	b		12
Certificate	None		_ 0	•	•		0
	Certificate of Conformance (F3391)		_ C	•	•		35

TABLE VI

		Selection	DC 2500	DC 2501	Stocking P/N	U.S.$
No Selection	None	0	•	•		0

RESTRICTIONS

Restriction Letters	Available Only With		Not Available With	
	Table	Selection	Table	Selection
a	I	E _		
	I	A _		
	I	T _		

Limit Controller Restrictions/Comments:
  1. FM approved units with communications are limited to read only.
  2. UL listed for regulatory use only.

| b | | | II | _ L _ _ |
| c | II | _ L _ _ | I | C _, R _ |

ORDERING INSTRUCTIONS: These are provide as guidance for ordering such as those listed

1. Part numbers are provided to facilitate Distributor Stock.

2. Orders may be placed either by model selection or by part number.

3. Part numbers are shown within the model selection tables to assist with compatibility information.

4. Orders placed by model selection are systematically protected against incompatibility.

5. Compatibility assessment is the responsibility of the purchaser for orders placed by part number.

6. Items labeled as N/A are not available via the stocking program and must be ordered by model selection.

Honeywell

UDC2500
Universal Digital Controller

Supplemental
Accessories & Kits

Description		Part Number	List Price
Bezel Assembly and Bezel Gasket		51453143-501	**
Display/Keyboard (with IR)		51452758-502	**
Dual Display with Auto/Manual		50004634-501	**
SPP (includes Dual Display, Auto/Manual)		50004634-502	**
Power/Output PWA with 2 E-M Relays (90-264 Vac Operation)		51452822-502	**
Power/Output PWA with 2 E-M Relays (24 Vac/dc Operation)		51452822-503	**
Auxiliary Output/Digital Input/RS-422/485 Communications PWA		51452810-501	**
Auxiliary Output/Digital Input/Ethernet Communications PWA		51452816-501	**
MCU/Inputs PWA (with 2nd Input and IR) for Controllers		51452801-503	**
MCU/Inputs PWA (with IR) for Limit Controllers		51452801-504	**
Electro-Mechanical Relay		30755306-501	**
Open Collector Output PWA		30756679-501	**
Solid State Relay		30756725-501	**
Current Output PWA		51452804-501	**
Dual Electromechanical Relay PWA		51452807-501	**
Ethernet Adaptor Board Kit		50009071-501	**
Case Assembly (including Mounting Kit with four brackets)		51452759-501	**
Varistor (MOV) 120 Vac		30732481-501	**
Varistor (MOV) 240 Vac		30732481-502	**
4-20 mA Input Resistor Assembly (250 ohm)		30731996-506	**
0-10 Volt Input Resistor Assembly (100K pair)		30754465-501	**
Mounting Kits (12 Brackets)		51452763-501	**
DIN Adaptor Kit		30755223-003	**
Process Instrument Explorer Software for UDC2500		50001619-001	**
Panel Bracket Kit		50004821-501	**
Configuration Cable Kit (used when IR is not specified)		46188694-501	**
Product Information on CD	All Languages	51453375-501	**
Quick Start Manual (2 page) Standard & Limit Controller	English	51-52-25-124	**
Product Manual	English	51-52-25-127	**
Limit Controller Manual	English	51-52-25-118	**

** Consult Honeywell Order Entry Systems for current parts pricing.