

UDC 3300 Universal Digital Controller

Model Selection Guide

Instructions

- Select the desired Key Number. The arrow to the right marks the selection available.
- Make one selection each from Tables I, II, III and V using the column below the proper arrow. A dot (•) denotes unrestricted availability. A letter denotes restricted availability. Select as many Table IV options as desired. (If no options are desired, specify 00.)

Key Number I II III IV V VI
 [] - [] - [] - [] - [] - [] - []

KEY NUMBER	Description	Selection	Availability			
	Basic Controller Model	DC330B	↓			
	Expanded Controller Model	DC330E		↓		
	Limit Controller Model	DC330L			↓	
	Basic Model with UDC 3000 DMCS Functionality	DC330D				↓

TABLE I

Output #1	Current without Alarms or Output 2	C0	•			•
	Current with Alarm 1	K _	•	•		•
	Relay, E-M with Alarm 1	E _	•	•	•	•
	Relay, SS 1 amp with Alarm 1	A _	•	•		•
	Relay, SS 10 amp with Alarm 1	S _	•	•		•
	Open Collector Output with Alarm 1	T _	•	•		•
Output #2 or Alarm #2	None	_ 0	•	•	•	•
	Relay, E-M	_ E	•	•	•	•
	Relay, SS 1 amp	_ A	•	•		•
	Relay, SS 10 amp	_ S	•	•		•
	Open Collector Output	_ T	•	•		•

TABLE II

External Interface	None	0 _ _	•	•	•	•
	RS-422/485 ASCII/MODBUS	1 _ _	•	•	c	
	Auxiliary Output (Current Output #2)	2 _ _	•	•		
	DMCS Communications	4 _ _			c	•
	Auxiliary Output + RS422/485 ASCII/MODBUS	5 _ _	•	•	c	
Software Options	Standard Functions (includes Accutune II)	_ 0 _	•	•	c	•
	SPP	_ A _				•
	SPP	_ B _	•			
	Math Option + SPP	_ C _		•		
	2 Loops/Internal Cascade + SPP	_ D _		h		
	Math Option + 2 Loops/Internal Cascade + SPP	_ E _		h		
Digital Inputs	None	_ _ 0	•	•	•	•
	Two Digital Inputs	_ _ 3	•	•	•	•

			Availability				
			DC330 _	↓	↓	↓	↓
TABLE III		Selection	B	E	L	D	
PV Input	T/C, RTD, Radiamatic, mV, 0-5V, 1-5V	1 _	•	•	•	•	
	T/C, RTD, Radiamatic, mV, 0-5V, 1-5V, 0-20mA, 4-20mA	2 _	•	•	•	•	
	T/C, RTD, Radiamatic, mV, 0-5V, 1-5V, 0-20mA, 4-20mA, 0-10V	3 _	•	•	•	•	
	Relative Humidity (includes optional input)	15		•			
	Carbon, Oxygen or DewPoint (includes optional input)	16	•	•			
Optional	None	_ 0	•	•	•	•	
	T/C, RTD, Radiamatic, mV, 0-5V, 1-5V, 0-20mA, 4-20mA	_ 1	•	•		g	
	Slidewire Input	_ 2	e	e		e	
	T/C, RTD, Radiamatic, mV, 0-5V, 1-5V, 0-20mA, 4-20mA, 0-10V	_ 3	•	•			
	Two High Level AI's instead of 2nd Universal AI	_ 4		•			

TABLE IV

Options	90-264 Vac Power	0 _ _ _ _ _	•	•	•	•
	24 Vac/dc Power	1 _ _ _ _ _	•	•	•	•
	None	_ 0 _ _ _ _	•	•	•	•
	CSA, FM & UL	_ A _ _ _ _	•	•	f	•
	FM & UL	_ F _ _ _ _	•	•	f	•
	Gray Elastomer Bezel	_ _ 0 _ _ _	•	•	•	•
	Blue Elastomer Bezel	_ _ B _ _ _	•	•	•	•
	Tan Elastomer Bezel	_ _ T _ _ _	•	•	•	•
	None	_ _ _ 0 _ _	•	•	•	•
	Rear Terminal Cover	_ _ _ P _ _	•	•	•	•
	Customer ID Tag	_ _ _ T _ _	•	•	•	•
	Rear Terminal Cover and Tag	_ _ _ U _ _	•	•	•	•
	None	_ _ _ _ 0 _	•	•	•	•
	DIN Cutout Adapter	_ _ _ _ D _	•	•	•	•
	None	_ _ _ _ _ 0	•	•	•	•

TABLE V

Manual	English	0 _	•	•	•	•
Certificate	None	_ 0	•	•	•	•
	Certificate of Conformance (F3391)	_ C	•	•	•	•

TABLE VI

No Selection	0	•	•	•	•
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RESTRICTIONS

Restriction	Available Only With		Not Available With	
Letter	Table	Selection	Table	Selection
c	FM approved Limit Controllers with Communications are limited to Read Only. MODBUS and Accutune are not available on Limit Controller Models.			
e			I	_ 0
f	FM approved Limit Controllers are restricted to TC and RTD PV inputs. Limit Controllers are UL Recognized for Regulatory use only.			
g	The Optional Input on DMCS instruments is restricted to 1-5V or 4-20 mA Input Types.			
h	Note: 2 loop applications usually need an optional input selection from Table III			

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Supplemental Accessories & Kits

Description	Part Number
FIELD UPGRADE SOFTWARE KITS:	
Upgrade DC330B to SPP + Carbon	51309713-501
Upgrade DC330E to SPP + Math	51309714-501
Upgrade DC330E to SPP + 2 Loops	51309715-501
Upgrade DC330E to SPP + Math + 2 Loops	51309716-501
Upgrade DC330D to SPP	51309717-501
Auxiliary Output Printed Wiring Board	30756687-501
Auxiliary Output/RS422-485 Communications Printed Wiring Board	30756687-502
DMCS Communications Printed Wiring Board (includes new PROM)	30756690-502
RS422/485 Communications Printed Wiring Board (includes basic PROM)	30756693-502
RS422/485 Communications Printed Wiring Board (includes expanded PROM)	30756693-503
Digital Input Printed Wiring Board	30756696-501
2nd Input Printed Wiring Board	30756715-501
Power/Input Printed Wiring Board - 90 to 265 Vac	51309404-502
Power/Input Printed Wiring Board - 24 Vac/dc	51309404-501
Current Output/MCU Printed Wiring Board (2 relays) - Expanded model	51309401-504
Relay Output/MCU Printed Wiring Board (3 relays) - Expanded model	51309401-505
Cold Junction Resistor Assembly	30757088-501
4-20 mA, Input Resistor Assembly (250 Ω)	30731996-506
0-10 Volt Input Resistor Assembly	30754465-501
Jumper Kit	30754499-001
MOV Noise Suppressor (275 ac, 15 joules)	30732481-502
Mounting Kit	30755050-001
Snubber Assembly	30756746-501
Relay, Electromechanical - 5 Amp	30755306-501
Relay, Solid State 1 Amp	30756725-501
Open Collector Output Printed Wiring Jumper	30756679-501
External 10 Amp SS Relay	30756018-003
NEMA 4 Kit (Front Face)	30757215-001
NEMA 3 Gasket (Panel to Case)	30756683-001
Controller Model Bezel Assembly - Gray	30756667-526
Limit Model Bezel Assembly - Gray	30756667-502
Display/Keyboard Printed Wiring Assembly	30756672-501
Adaptor Kit for DIN 43700 Panel Cutout (5.43" x 5.43") - Gray Color	30755223-003
Case Assembly	30756721-501
Rear Terminal Cover Kit	30756764-002