

## UDC 5000 Ultra-Pro 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, IV and V using the column below the proper arrow. A dot (•) denotes unrestricted availability. A letter denotes restricted availability.

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

### KEY NUMBER - CONTROLLER

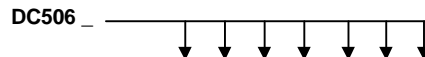
Type of Output	Number of Alarm Relays	Selection	Availability					
			↓	↓	↓	↓	↓	↓
Current Proportional	0	DC5061	↓					
	2	DC5062		↓				
Current/Time Duplex	2	DC5063			↓			
Time Proportional	2	DC5064				↓		
Time Prop Duplex or 3 Position Step	2	DC5065					↓	
Position Proportional or 3 Position Step with Motor Position Indication	2	DC5066						↓
Universal Outputs	2	DC5067						↓

### TABLE I

Design Style	Blue Bezel	0	•	•	•	•	•	•	•
	Gray Bezel	1	•	•	•	•	•	•	•

### TABLE II

Communications	None	0 __	•	•	•	•	•	•	•
	DMCS	1 __	•	•	•	•	•	•	•
	RS422/485	2 __	•	•	•	•	•	•	•
Software Options	None	_ 0 _	•	•	•	•	•	•	•
	A/T (Adaptive Tune and Auto Tune)	_ A _	•	•	•	•	•	•	•
	Set Point Progr. & Math Options	_ B _	•	•	•	•	•	•	•
	Set Point Progr. & Math Options & A/T	_ C _	•	•	•	•	•	•	•
	2 Loops of Control/Internal Cascade	_ D _	j	j	•	•	•	•	•
	2 Loops/Int. Cascade & A/T	_ E _	j	j	•	•	•	•	•
2 Loops/Int. Casc./A/T/SP Prog. & Math Options	_ F _	j	j	•	•	•	•	•	
Transmitter Power	None	__ 0 _	•	•	•	•	•	•	•
	Process Variable (Input 1) Only	__ 1 _	e	e	e	e	e	e	e
	Input 2 and/or Input 3	__ 2 _	g	g	g	g	g	g	g
	Process Variable (Input 1) & (Input 2 or Input 3)	__ 3 _	h	h	h	h	h	h	h
External Interface Options	None	___ 0	•	•	•	•	•	•	•
	Auxiliary Output	___ 1	•	•	•	•	•	•	•
	Digital Inputs (Remote Mode Switching)	___ 2	•	•	•	•	•	•	•
	Auxiliary Output & Digital Inputs	___ 3	d	d	d	d	d	d	d



**TABLE III**

Input Selections		Selection	1	2	3	4	5	6	7
Process Variable (Input 1)	Thermocouple	1 __	•	•	•	•	•	•	•
	RTD or Honeywell Radiamatic (RH)	2 __	•	•	•	•	•	•	•
	4-20 Milliamps DC	3 __	•	•	•	•	•	•	•
	0-10 Vdc	4 __	•	•	•	•	•	•	•
	Millivolts, 1-5 Vdc	5 __	•	•	•	•	•	•	•
	Carbon Potential (Requires Input 2)	1 6 _	•	•	•	•	•	•	•
	Relative Humidity (Requires Input 2)	2 2 _	•	•	•	•	•	•	•
Input 2	None	_ 0 _	•	•	•	•	•	•	•
	Thermocouple	_ 1 _	•	•	•	•	•	•	•
	RTD or Honeywell Radiamatic (RH)	_ 2 _	•	•	•	•	•	•	•
	4-20 Milliamps DC	_ 3 _	•	•	•	•	•	•	•
	0-10 Vdc	_ 4 _	•	•	•	•	•	•	•
	Millivolts, 1-5 Vdc	_ 5 _	•	•	•	•	•	•	•
Input 3	None	-- 0	•	•	•	•	•	•	•
	4-20 Milliamps DC	-- 1	•	•	•	•	•	•	c
	1-5 Vdc	-- 2	•	•	•	•	•	•	c
	0.25-1.25 Vdc	-- 3	•	•	•	•	•	•	c

**TABLE IV OPTIONS (5 Digits)**

None	0 _ _ _ _	•	•	•	•	•	•	•
Customer I.D. Tag	T _ _ _ _	•	•	•	•	•	•	•
None	_ 0 _ _ _	•	•	•	•	•	•	•
Universal Input Kit	_ U _ _ _	•	•	•	•	•	•	•
None	-- 0 _ _	•	•	•	•	•	•	•
220/240 VAC Power (Int'l Sales Only)	-- 2 _ _	•	•	•	•	•	•	•
None	--- 0 _	•	•	•	•	•	•	•
CSA Certification and FM Approval	--- C _	•	•	•	•	•	•	•
CSA Certification, FM Approval and CE Mark	--- D _	•	•	•	•	•	•	•
CE Mark Only	--- E _	•	•	•	•	•	•	•
Factory Mutual Approval	--- F _	•	•	•	•	•	•	•
None	---- 0	•	•	•	•	•	•	•

**TABLE V OPTIONS (5 Digits)**

None	0 0 _	•	•	•	•	•	•	•
Open Collector Output(s)	C 1 _	•	•	•	•	•	•	•
Single Solid State Relay (2 Amps)	S 1 _	•	•	•	•	•	•	•
Dual Solid State Relays (2 Amps)	S 2 _	•	•	•	•	•	•	•
Single Solid State Relay (10 Amps)	S 3 _	•	•	•	•	•	•	•
None	-- 0	•	•	•	•	•	•	•

**TABLE VI**

No Selection	0	•	•	•	•	•	•	•
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**RESTRICTIONS**

Restriction Letter	Available Only With		Not Available With	
	Table	Selection	Table	Selection
e	III	3 __, 5 __		
g	III	_ 0 _, _ 3 _, _ 5 _		
h	III	3 3 _, 5 5 _, 3 5 _ 5 3 _, 3 0 _, 5 0 _		
d		Only one alarm relay when used with Table II, 1 _ _ _ or 2 _ _ _.		
c		Not available when configured for Position Proportion control (Model DC 5066).		
j		Auxiliary output must be specified if a second current output is required.		

## UDC 5000 Ultra-Pro Universal Digital Controller

## Supplemental Accessories & Kits

Description	Part Number
Rear Terminal Cover Kit	30754494-001
Cold Junction Resistor Assembly (T/C Input)	30757088-501
4-20 mA, Input Resistor Assembly (62.5 ohm)	30754466-501
0-10 Volt Input Resistor Assembly	30754465-501
Universal Input Kit	30754471-501
Mounting Kit	30755050-001
Single MOV (275V)	30732481-502
Adaptor Plate (DIN to UDC 500/5000)	30752640-001
Jumper Kit	30754499-001
Rear Connector (Terminal) Kit	30754499-003
Fuse Kit	30754499-004
Battery (NVRAM)	30750596-501
Molding Kit - Blue	30756035-501
Molding Kit - Gray	30756035-502
Gasket	30755858-501
Third Input 1-5Vdc Interface Board	30755946-501
Control Relay Kit	30754466-005
External Single Solid State Relay Kit - 2 amp	30756013-501
External Dual Solid State Relay Kit - 2 amp	30756016-501
Single Solid State Relay Kit - 10 amp	30756018-502
Open Collector Adaptor Kit	30756214-501
Keyboard Assembly - Gray	30755404-502
Display Printed Wiring Board	30755699-501
Controller Printed Wiring Board	
Current Output	30755393-502
Time, Current Time Duplex, Position, or Universal Outputs	30755393-503
Auxiliary Output/Remote Mode Switch Printed Wiring Board	30755402-501
Transmitter Power Printed Wiring Board	30754385-501
Second Input Printed Wiring Board	30755851-501
DMCS Communications Printed Wiring Board - includes PROM	30755408-501
RS422/485 Communications Printed Wiring Board - includes PROM	30755865-502
Upgrade PROM - 32 Pins Memory Upgrade Kits (all include Communications)	
Autotune + Input 3	30756550-501
Autotune + Input 3 + Setpoint Program/Math	30756551-501
2 Loops PID + Autotune + Input 3	30756552-501
2 Loops + Autotune + Input 3 + Setpoint Program/Math	30756553-501