

UDC5000 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 _ _	•	•	•	•	•	•	•	•
	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	•	•	•	•	•	•
Transmitter Power	2 Loops/Int. Casc./A/T/SP Prog. & Math Options	_ F _ _	j	j	•	•	•	•	•	•
	None	_ _ 0 _	•	•	•	•	•	•	•	•
	Process Variable (Input 1) Only	_ _ 1 _	e	e	e	e	e	e	e	e
	Input 2 and/or Input 3	_ _ 2 _	g	g	g	g	g	g	g	g
External Interface Options	Process Variable (Input 1) & (Input 2 or Input 3)	_ _ 3 _	h	h	h	h	h	h	h	h
	None	_ _ _ 0	•	•	•	•	•	•	•	•
Auxiliary Output	Auxiliary Output	_ _ _ 1	•	•	•	•	•	•	•	•
	Digital Inputs (Remote Mode Switching)	_ _ _ 2	•	•	•	•	•	•	•	•
	Auxiliary Output & Digital Inputs	_ _ _ 3	d	d	d	d	d	d	d	d

DC506 _

TABLE III

		Selection	1	2	3	4	5	6	7
Input Selections									
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

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 _	•	•	•	•	•	•	•
None	_ _ 0	•	•	•	•	•	•	•

TABLE VI MANUALS

Product Information on CD	(All Languages)	2	•	•	•	•	•	•
Product Manual # 51-51-25-17	English	E	•	•	•	•	•	•

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).			



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Supplemental Accessories & Kits

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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
Jumper Kit	30754499-001
Rear Connector (Terminal) Kit	30754499-003
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
Resistor Assembly (62.5 ohm)	30754466-501
External Single Solid State Relay Kit - 2 amp	30756013-501
External Dual Solid State Relay Kit - 2 amp	30756016-501
Open Collector Adaptor Kit	30756214-501
Keyboard Assembly - Gray	30755404-502
Display Printed Wiring Board	30755399-501
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
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
Product information on CD (All Languages)	51453375-501
Product Manual	51-51-25-17

NOTE: Consult Honeywell Order Entry Systems for current parts pricing.