

Model Number Interpretation

Introduction

Write your controller's model number in the spaces provided below and circle the corresponding items in each table. This information will also be useful when you wire your controller.

UDC2800 Universal Digital Controller Model Selection Guide

The UDC2800 controller packs new powerful features while retaining all the simplicity and flexibility of the industry standard UDC2500 controller including:

- Enhanced Display
- Bluetooth for configuring with Honeywell EasySet or Laptop
- PC Based Configuration Tools
- Ethernet Communications
- Two Analog Inputs
- Accutune III, Fast/Slow, Heat/Cool
- Thermocouple Health Monitoring

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 (•) donates availability.

Key Number	I	II	III	IV	V	VI
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Key Number - UDC2800 Single Loop Controller		
Description	Selection	Availability
Digital Controller for use with 100 to 240 Vac Power	DC2800	↓
Digital Controller for use with 24 Vac/dc power	DC2900	↓

Table I - Specify Control Output and/or Alarms				
Output #1	Current Output (4 to 20 ma, 0 to 20 ma)	C _	•	•
	Electro Mechanical Relay (5 Amp Form C)	E _	•	•
	Open Collector transistor output	T _	•	•
	Dual 2 Amp Relays (Both are Form A) (Heat/Cool Applications)	R _	•	•
Output #2 and Alarm #1 or Alarms 1 and 2	No Additional Outputs or Alarms	_ 0	•	•
	One Alarm Relay Only	_ B	•	•
	E-M Relay (5 Amp Form C) Plus Alarm 1 (5 Amp Form C Relay)	_ E	•	•
	Open Collector Plus Alarm 1 (5 Amp Form C Relay)	_ T	•	•

Table II - Communications and Software				
Communications	None	0 _ _	•	•
	Auxiliary Output/Digital Inputs (1 Aux and 1 DI or 2 DI)	1 _ _	•	•
	RS-485 Modbus Plus Auxiliary Output/Digital Inputs	2 _ _	•	•
	10/100M Base-T Ethernet (Modbus RTU) Plus Auxiliary Output/Digital Inputs	3 _ _	•	•
Software	Limit Controller	_ L _	•	•
	Standard Software	_ S _	•	•
	Dual Loop and Internal Cascade Control	_ D _	•	•
	Standard S/W and Setpoint Programming	_ F _	•	•
Future options	None	_ _ 0	•	•

Table III - Input 1 and Input 2				
Input 1 (See Note 1)	TC, RTD, mV, 0-5V, 1-5V, 0-10V	1 _ _	•	•
	TC, RTD, mV, 0-5V, 1-5V, 0-10V, 0-20mA, 4- 20mA	2 _ _	•	•
Input 2	None	_ 00	•	•

	TC, RTD, mV, 0-5V, 1-5V, 0-10V	_ 10	•	•
	TC, RTD, mV, 0-5V, 1-5V, 0-10V, 0-20mA, 4-20mA	_ 20	•	•
	Slidewire Input for Position Proportional (Requires 2 Relay Outputs)	_ 40	a	a
	Carbon, Oxygen or Dewpoint (Provides 2 Inputs)	_ 60	b	b
Note 1: Input 1 can be changed in the field using external resistors.				

Table IV - Options				
Approvals	CE (Standard)	0 _ _	•	•
	CE, UL and CSA	1 _ _	•	•
	CE, UL and CSA, FM (Limit control)	2 _ _		
Tags	None	_ 0 _	•	•
	Stainless Steel Customer ID Tag - 3 lines w/22 characters/line	_ T _	•	•
Future Options	None	_ _ 0	•	•

Table V - Documentation				
Documents	Quick Start Guide - English	0 _	•	•
Certificate	None	_ 0	•	•
	Certificate of Conformance (F3391)	_ C	•	•

Table VI - Extended Warranty				
Extended Warranty	None	0	•	•
	Extended Warranty Additional 1 year	1	•	•
	Extended Warranty Additional 2 years	2	•	•

ORDERING INSTRUCTIONS: These are provided 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.

RESTRICTIONS

Restriction Letters	Available Only With		Not Available With	
	Table	Selection	Table	Selection
a	I	EE, R_		
b	III	1 _ _		
c	II	_S _D_		
d	II	_L_		
e	III	_00	I	C_, R_

UDC2800 Universal Digital Controller Supplemental Accessories & Kits

Description	Part Number
Front panel assembly, UDC 2800/2900	50159507-501
TFT-LCD module for UDC2800, CTM320240N01	50152823-501
Power/Output PWA without E-M Relays (90-264 Vac Operation)	51308438-528
Power/Output PWA with E-M Relays (90-264 Vac Operation)	51308438-529
Power/Output PWA with E-M Relays (24 Vac/dc Operation)	51308440-526
Auxiliary Output/Digital Input PWA	51308448-526