# Honeywell

# UDC3200 Universal Digital Controller    Model Selection Guide

---

### *New! Easy To Use UDC3200 1/4 DIN Single Loop Controller*
The UDC3200 Controller packs new powerful features while retaining all the simplicity and flexibility of the industry standard UDC3300 Controller. Many new optional features include:
- Enhanced Display
- Built-in infrared communications port for configuring with a Pocket PC or Laptop
- PC Based Configuration Tools
- Ethernet Communications
- Two Analog Inputs
- Accutune III, Fast/Slow, Heat/Cool
- Thermocouple Health Monitoring

**UDC3200 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

[ _ _ _ _ _ _ ] - [ _ _ ] - [ _ _ _ _ ] - [ _ _ _ ] - [ _ _ _ _ _ ] - [ _ _ ] [ _ ]

---

## KEY NUMBER - UDC3200 Single Loop Controller

|  |  |  | If Applicable |
|---|---|---|---|
| Description | Selection | Availability | Stocking P/N |
| Digital Controller for use with 90 to 250Vac Power | DC3200 | ↓ |  |
| Digital Controller for use with 24Vac/dc Power | DC3201 |  ↓ |  |

## TABLE I - Specify Control Output and/or Alarms

|  |  | Selection | Avail. 1 | Avail. 2 |  |
|---|---|---|---|---|---|
| Output #1 | Current Output (4 to 20ma, 0 to 20 ma) | C _ | • | • |  |
|  | Electro Mechanical Relay (5 Amp Form C) | E _ | • | • |  |
|  | Solid State Relay (1 Amp) | A _ | • | • |  |
|  | 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 | • | • |  |
|  | Solid State Relay (1 Amp) Plus Alarm 1 (5 Amp Form C Relay) | _ A | • | • |  |
|  | Open Collector Plus Alarm 1 (5 Amp Form C Relay) | _ T | • | • |  |

## TABLE II - Communications and Software Selections

|  |  | Selection | Avail. 1 | Avail. 2 |  |
|---|---|---|---|---|---|
| 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 Base-T Ethernet (Modbus RTU) Plus Auxiliary Output/Digital Inputs | 3 _ _ _ | • | • |  |
| Software Selections | Standard Functions, Includes Accutune | _ 0 _ _ | • | • |  |
|  | Math Option | _ A _ _ | • | • |  |
|  | Set Point Programming (1 Program, 12 Segments) | _ B _ _ | • | • |  |
|  | Set Point Programming Plus Math | _ C _ _ | • | • |  |
| Reserved | No Selection | _ _ 0 _ | • | • |  |
| Infrared interface | Infrared Interface Included (Can be used with a Pocket PC) | _ _ _ R | • | • |  |

**Availability**

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

| | | Selection | DC 3200 | 3201 | If Applicable Stocking P/N |
|---|---|---|---|---|---|
| Input 1 | TC, RTD, mV, 0-5V, 1-5V | 1 _ _ | • | • | |
| | TC, RTD, mV, 0-5V, 1-5V, 0-20mA, 4-20mA | 2 _ _ | • | • | |
| | TC, RTD, mV, 0-5V, 1-5V, 0-20mA, 4-20mA, 0-10V | 3 _ _ | • | • | |
| Input 2 | None | _ 00 | • | • | |
| | TC, RTD, mV, 0-5V, 1-5V, 0-20mA, 4-20mA | _ 10 | • | • | |
| | TC, RTD, mV, 0-5V, 1-5V, 0-20mA, 4-20mA, 0-10V | _ 20 | • | • | |
| | Slidewire Input for Position Proportional (Requires 2 Relay Outputs) | _ 40 | a | a | |
| | Carbon, Oxygen or Dewpoint (Provides 2 Inputs) | _ 60 | b | b | |

### TABLE IV - Options

| | | Selection | DC 3200 | 3201 | If Applicable Stocking P/N |
|---|---|---|---|---|---|
| Approvals | CE (Standard) | 0 _ _ _ _ | • | • | |
| | CE, UL and CSA | 1 _ _ _ _ | • | • | |
| Tags | None | _ 0 _ _ _ | • | • | |
| | Stainless Steel Customer ID Tag - 3 lines w/22 characters/line | _ T _ _ _ | • | • | |
| Future Options | None | _ _ 0 _ _ | • | • | |
| | None | _ _ _ 0 _ | • | • | |
| | None | _ _ _ _ 0 | • | • | |

### TABLE V - Product Manuals

| | | Selection | DC 3200 | 3201 | If Applicable Stocking P/N |
|---|---|---|---|---|---|
| Manuals | Product Information on CD - All Languages | 0 _ | • | • | |
| | English Manual | E _ | • | • | |
| | French Manual | F _ | | | |
| | German Manual | G _ | | | |
| | Italian Manual | I _ | | | |
| | Spanish Manual | S _ | | | |
| Certificate | None | _ 0 | • | • | |
| | Certificate of Conformance (F3391) | _ C | • | • | |

### TABLE VI

| | | Selection | DC 3200 | 3201 | If Applicable Stocking P/N |
|---|---|---|---|---|---|
| No Selection | None | 0 | • | • | |

**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.

**RESTRICTIONS**

| Restriction Letters | Available Only With | | Not Available With | |
|---|---|---|---|---|
| | Table | Selection | Table | Selection |
| a | I | EE | | |
| | I | AA | | |
| | I | R _ | | |
| b | III | 1 _ _ | | |

# Honeywell

# UDC3200
# Universal Digital Controller

# Supplemental
# Accessories & Kits

| Description | | Part Number |
|---|---|---|
| Bezel Assembly and Bezel Gasket | | 51453143-502 |
| Display/Keyboard (with IR) | | 51452845-501 |
| 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 |
| Optional Analog Input PWA | | 51452825-501 |
| Auxiliary Output/Digital Input/RS-422/485 Communications PWA | | 51452810-501 |
| Auxiliary Output/Digital Input/Ethernet Communications PWA | | 51452816-501 |
| MCU/Inputs PWA | | 51452819-501 |
| 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 | | 50001619-001 |
| Math Software Upgrade | | 50004635-501 |
| SPP Software Upgrade | | 50004635-502 |
| Panel Bracket Kit | | 50004821-501 |
| Product Information on CD | All Languages | 51453375-501 |
| Quick Start Manual (2 page) Standard | English | 51-52-25-129 |
| Product Manual | English | 51-52-25-119 |