

# UDC1200 & UDC1700 Universal Digital Controllers Series Micro-Pro Specifications

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## Overview

The UDC1200 & UDC1700 are microprocessor-based 1/16 DIN and 1/8 DIN controllers, which combine a high degree of functionality and reliability at low cost.

They are fully dedicated to monitor and control temperatures, pressures and levels in a wide range of applications such as environmental chambers, furnaces, ovens, packaging machines and other applications in plastics and the food and beverage industries. The large and easy-to-read dual 4-digit display and tactile keypad make the UDC1200 and UDC1700 easy to configure and use. Their outstanding flexibility enables you to configure any unit for any application and change it if required.

For the thousands of satisfied UDC1000/1500 users, the UDC1200/ 1700 controllers are downward compatible to existing UDC1000/1500 applications and installations.

## Features

### Dual display

Two 4-digit displays with 7 LED segments, each configurable for:

- PV and SP (non adjustable)
- PV and SP (adjustable)
- PV and Ramping SP
- PV only

### Easier to configure

Two different configuration levels (Configuration mode and set-up mode) provide easy access to parameters. A 4-digit security code prevents unauthorized changes.

### Moisture resistant front-face

Meets NEMA 3 / IP65 front-face protection against dust and water.



UDC1700



UDC1200

### Universal input

Accept seven different types of thermocouples, RTDs, current and voltage linear inputs. All inputs are configurable as standard.

### Universal power supply

The UDC1200 and UDC1700 can operate on any line voltage from 90 Vac to 264 Vac at 50/60 Hz. A 24/48 Vac/dc model is available as an option.

### Easy upgrade

All the option boards are jumper free and detected automatically by the instrument.

### Easy output selection

All the outputs (including the control output) of the instrument can be changed to meet the exact customer's needs.

### Alarm strategy

Two soft alarms for PV, deviation high/low/absolute. A special loop alarm is also provided to detect faults in the control loop by continuously analyzing the PV response to the control output. Alarm inhibit is available on power up and setpoint switching.

### Manual/Automatic mode

Manual control (via bumpless transfer) is enabled by simply pressing the front-face AUTO/MAN key. The "SET" LED flashes and the output power is displayed on the lower display. Output can be adjusted with the upper and lower keys.

### Pre-tuning and self-tuning strategy

Pre-tuning is used to set up the PID parameters close to the optimum values, which the self-tuning algorithm uses to subsequently optimize the tuning parameters.

### Limit controller

Packaged in 1/16 DIN, the UDC1200 limit controller is designed to provide a safety shut-off and optional alarm for use in a wide variety of applications.

### Up to three outputs

The UDC1200 and UDC1700 provide up to three outputs for time and current proportioning, duplex mode (heat/cool), PV or SP retransmission, and alarms.

### Setpoint ramp

The current setpoint can ramp to a new-targeted setpoint by way of a user defined ramp rate.

### Dual setpoint

Dual setpoint option is available on the UDC1200 and UDC1700. The current setpoint is selected by a digital input. This option is exclusive with UDC1200 limit model remote alarm reset.

### Communication

An optional RS485 communications interface is available on the UDC1200 and UDC1700. It provides a link for up to 32 units and a host computer through ASCII or Modbus RTU protocol at up to 19200 baud.

### Highly secure

A non-volatile memory based on EEPROM technology ensures data integrity during loss of power supply, with retention of more than 100 years. A 4-digit security code prevents unauthorized or accidental change.



UDC1700

Upper display: 4 characters dedicated to show the PV. In configuration mode, it shows the parameter value or selection

Lower display: 4 characters dedicated in normal operation mode to display the SP. In configuration mode, it displays the parameter name.



UDC1200



Selects manual or automatic mode. Becomes « Reset » on UDC1200 Limit model.



Allows operator mode parameters to be scrolled. In combination with the «Upper» key, allows configuration mode or Setup mode to be entered.



Increases setpoint, output or configuration parameter values.



Decreases setpoint, output or configuration parameter values.

## Optional Features

The following can be selected via the Model selection Guide (see page 8):

- RS485 ASCII communication
- RS485 Modbus RTU communication
- Digital Input
- Output 2
- Output 3
- Power Supply 24/48 Vac/dc

## Physical Description

The UDC1200 controller is housed in a 110 mm (4.33 inches) deep case with a standard UDC gray bezel. It can be mounted in a 1/16 DIN panel cutout.

The UDC1700 controller is housed in a 100 mm (3.94 inches) deep case and can be mounted in a 1/8 DIN panel cutout. By using the pre-assembled mounting fixture delivered with the unit, you can easily and securely install the controller into the panel cutout. Modular plug-in construction allows rapid access and saves time. All inputs and outputs are connected on the rear terminal block by screws.

## Operator Interface

Four display combinations are offered to the operator. The upper 4-digit 7-segment display is always dedicated to monitor the PV. The lower display can show:

- SETPOINT (read only)
- SETPOINT (adjustable)
- RAMPING setpoint (ramp mode)
- BLANK

## Universal Inputs

All input types are available on any unit. Selection among the various types of inputs is made by prompt configuration. As soon as the Process Variable reaches the value of the input range limit, the controller displays a message. A sensor break indication is also provided. A configurable digital filter is available from 0.5 seconds to 100.0 seconds.

## Outputs

Three types of outputs (RELAY, SSR driver or DC linear) are selectable for three outputs, through the model selection guide or by adding a plug-in module for outputs 1, 2 and 3.

## Outputs Algorithm

The UDC1200 and UDC1700 are available with the following output algorithms:

- *Time proportional:*  
ON/OFF or time proportional with electromechanical relay SPDT 2 A or SSR driver (open collector).
- *Current proportional:*  
Supply directly proportional current or voltage signal to the final control elements which require 0-20 mA, 4-20 mA, 0-10 V or 0-5 V.
- *Time proportional duplex:*  
Three duplex modes can be selected, either ON/OFF duplex, time proportional duplex (heat/cool with two proportional bands, two cycle times and deadband) or TPSC.
- *Current proportional duplex:*  
In addition to the first current/voltage output, a second similar output with its own proportional band is provided.
- *Current/Time or Time/Current duplex:*  
Provides a variation of traditional time or current duplex mode by mixing current and time proportioning together.

## Control Algorithms

Four control algorithms can be set up through the configuration menu:

- On/Off
- PID
- PD + MR
- TPSC

The TPSC (Three Position Step Control) control algorithm is dedicated to control valve positioning without slidewire feedback from the motor shaft.

## Configuration

There are two levels of configuration. The SET-UP mode allows modification of current parameters such as tuning parameters, alarm values, setpoint limit, ramp enable, auto-manual mode enable and auto-pretune enable.

The CONFIGURATION mode is more oriented to unit personality: input selection, output 2 and 3 usage, alarm type, communication address and lockout code.

The operator mode screens are only selectable via the configuration software only. For instance, the alarm value screen can be moved from setup mode to normal operator mode if desired.

## Control Mode

Manual or automatic mode with bumpless transfer is standard feature. In manual mode, the operator can directly control the output through the two front face keys (raise and lower keys). The output value is monitored on the lower display.

## Alarms

Outputs 1, 2 and 3 can be used as alarms. Two electromechanical single pole double throw relays can activate external equipment when alarm setpoints are reached. An LED is also activated on the front-face. A direct or reverse acting alarm output can be configured. A logical combination of the two alarms: OR, AND or hysteresis (active when both alarms are active and inactive when both alarms are inactive) can be set which associates the two alarms status before energizing the relay. In order to detect a defective control loop, the controller can supply special loop alarm control by continually monitoring the PV response to output demand. A timer is automatically set up when any output is on saturation mode. When the timer reaches twice the reset time with no PV response, the loop alarm is activated. With this soft alarm there is no need for a heater circuit breaker, saving wiring time and costs.

## Display

Dual, four-digit LED display with decimal point location configurable up to three places for linear ranges only.

## Limit Controller

The UDC1200 1/16 DIN limit controller provides a latched relay output which is activated when the process parameters either exceed or fall below the desired value, providing a failsafe cut-off which has to be manually reset before the process can continue.

The UDC1200 limit controller can be configured to be either a "high limit" unit where the delay will de-energize when the PV is above the limit setpoint, or a "low limit", where the relay will drop out when the PV falls below the setpoint.

A LED indicator shows when limits have been exceeded, and when the relay is latched out.

The optional digital input allows a remote reset function.

## Remote Setpoint Model

The UDC1700 1/8 DIN "R" model controller has a second input available that accepts either a linear or potentiometer input signal as a remote setpoint. The input signals accepted are field-configurable and are: 0-5 V, 1-5 V, 0-10 V, 2-10 V, 0-20 mA, 4-20 mA (factory set), 0-50 mV, 10-50 mV, 0 100 mV, or 0-2000 ohms. This allows the controller to act as a "slave" controller accepting a setpoint value from a 'master' device such as a PLC or setpoint-programming controller (such as the DCP50, DCP100, DCP300, or DCP550 series).

The UDC1700R also includes a standard digital input allowing remote switching between the local setpoint and the remote setpoint value. Also standard in this model is "fuzzy" autotune software that minimizes process variable overshoot when responding to a setpoint change.

## PC Software

The UDC1200 & 1700 are supported with PC software allowing you to quickly configure your device using configuration wizards, or to perform diagnostics.

**Specifications** (Applies to both UDC1200 and UDC1700)

Technical data	
<b>Accuracy</b>	0.1 % of span $\pm$ 1 LSD
<b>Temperature Stability</b>	0.01 % of span per °C
<b>Input Signal Failure</b>	<p><i>Fail-safe output value:</i> Achieved when burnout is detected. Value depends on configuration.</p> <p><i>For thermocouple and mV input detected by any lead break:</i> Upscale burnout</p> <p><i>For RTD:</i> Burnout detected by any lead break</p> <p><i>Current or voltage input:</i> Burnout set by open circuit detection</p>
<b>Input Impedance</b>	<p><i>Voltage impedance:</i> 47 Kohms</p> <p><i>Current input:</i> 4.7 ohms</p> <p><i>All others:</i> 100 Mohms</p>
<b>Input Sampling Rate</b>	Four samples per second
<b>Input Filter</b>	Digital filter configurable from front panel 0.0 (Off), from 0.5 seconds to 100.0 seconds in 0.5 seconds increment
<b>Input Resolution</b>	14 bits approximately, always four times better than display resolution
<b>Input Isolation</b>	Universal input isolated at 2500 V from all outputs except SSR and from power supply
<b>Stray Rejection</b>	<p><i>Common mode rejection:</i> &gt; 120 dB at 50/60 Hz</p> <p><i>Serial mode rejection:</i> &gt; 500% of span at 50/60 Hz</p>
<b>Approvals</b>	<p>UL recognized to US &amp; Canadian standards</p> <p>FM approval on the UDC1200 limit model</p> <p>Product design to meet CE MARK requirement</p>
<b>Control Output Type</b>	<p><b>Type available:</b> <i>Output 1/2/3:</i> DC, Electromechanical relay, SSR drive (open collector)</p> <p><b>DC linear output:</b> 0-20 mA, 4-20 mA, 0-5 V, 0-10 V <i>Accuracy:</i> <math>\pm</math> 0.25 % (250 ohms for mA, 2 Kohms for voltage) <i>Resolution:</i> 80 bits in 250 ms (10 bits in 1 second typical &gt; 10 bits in &gt; 1 second) <i>Load impedance:</i> 500 ohms maximum for current output, 500 ohms minimum for voltage output <i>Isolation:</i> Isolated 2500 V from all other inputs and outputs <i>Range selection method:</i> Front panel code setting <i>Temperature stability:</i> 0.01 % / °C <i>Electromechanical relay:</i> SPDT contact <i>Resistive load:</i> 2 A at 120 V or 240 V <i>Life time:</i> &gt; 500000 operations at rated voltage/current <b>SSR drive/TTL:</b> <i>Drive capability:</i> SSR &gt; 10 Vdc into 250 ohms minimum <i>Isolation:</i> Not isolated from input and other SSR output</p>
<b>Alarms</b>	<p><i>Maximum number of alarms:</i> 2 soft alarms setpoint + 1 loop alarm</p> <p>Alarm inhibit available on power up and setpoint switching</p> <p><i>Alarm output:</i> Up to two relays or SSR output on outputs 2 and 3</p> <p><i>Types:</i> PV high or low, band, deviation high or low, loop</p> <p><i>Combination alarms:</i> Logical "OR", "AND" or hysteresis of alarms available to individual hardware output</p>

<b>Loop Control</b>	<p><i>Automatic tuning type:</i> Pre-tune and self-tune</p> <p><i>Proportional bands:</i> 0 (inactive), 0.5 % to 999.9 % of input span with 0.1% increments. Two proportional bands available for duplex mode</p> <p><i>Reset:</i> Off or from 1sec. to 99 min 59 sec.</p> <p><i>Rate:</i> From 0 sec. to 99 min 59 sec.</p> <p><i>Manual reset:</i> from 0 to 100 % of output (single output), from –100 % to 100 % of output (dual output)</p> <p><i>Deadband:</i> <math>\pm 20</math> of PB1 + PB2</p> <p><i>ON/OFF hysteresis:</i> 0.1% to 10.0 % of input span</p> <p><i>Auto/manual mode:</i> Front key selectable with bumpless transfer between automatic and manual mode</p> <p><i>Cycle times:</i> Up to two cycle times available for time duplex control</p> <p><i>Selection:</i> 0.5, 1, 2, 4, 8, 16, 32, 64, 128, 256, or 512 seconds</p> <p><i>Setpoint ramp:</i> From 1 to 9999 engineering units per hour</p>
<b>Retransmission Output</b>	Any output can be selected to retransmit the process value or setpoint as a linear (current or voltage) output
<b>Digital Input (optional)</b>	On contact the digital input will switch between SP1/SP2 or Auto/Manual or DC100L Remote Reset
<b>Communication Interface</b>	<p>RS485 – ASCII or Modbus RTU (selectable from the menu)</p> <p><i>Baud rate:</i> 1200, 2400, 4800, 9600 or 19200 baud</p> <p><i>Link characteristics:</i> 32 drops maximum, ASCII or Modbus protocols, two wires</p>
<b>Mounting</b>	Plug-in with pre-assembled mounting fixture
<b>Wiring Connection</b>	Screw terminals on the rear of the case (combination head)
<b>Power Consumption</b>	4 W
<b>Physical (UDC1200)</b>	<p><i>Weight:</i> 210 grams maximum</p> <p><i>Height:</i> 48 mm / 1.89 in</p> <p><i>Width:</i> 48 mm / 1.89 in</p> <p><i>Depth:</i> 110 mm / 4.33 in</p> <p><i>Cut out:</i> 45 mm x 45 mm / 1.77 in x 1.77 in</p>
<b>Physical (UDC1700)</b>	<p><i>Weight:</i> 250 grams maximum</p> <p><i>Height:</i> 96 mm / 3.78 in</p> <p><i>Width:</i> 48 mm / 1.89 in</p> <p><i>Depth:</i> 100 mm / 3.94 in</p> <p><i>Cut out:</i> 45 mm x 92 mm / 1.77 in x 3.62 in</p>
<b>Environmental</b>	<p><i>EMI Susceptibility:</i> Designed to meet EN55101</p> <p><i>EMI Emission:</i> Designed to meet EN55022</p> <p><i>Safety Considerations:</i> Designed to comply with IEC1010-1 as far as applicable</p>
<b>Front Panel Sealing</b>	NEMA 3 / IP66

Input Actuations		
		Ranges
Thermocouple types		
	°F	°C
(Fixed decimal)		
R	32 – 3198	0 – 1759
S	32 – 3204	0 – 1762
J	-328 – 2192	-200 – 1200
J	-199.9 – 999.9	-128.8 – 537.7
T	-400 – 752	-250 – 400
T	-199.9 – 752	-128.8 – 400
K	-400 – 2503	-240 – 1373
K	-128.8 – 537.7	-199.9 – 999.9
L	32 – 1403	0 – 762
L	32 – 999.9	0 – 537.7
B	211 – 3315	100 – 1824
C	32 – 4208	0 – 2320
N	32 – 2551	0 – 1399
<b>RTD:</b> (3 wires connection) PT100 (IEC) $\alpha = 0.00385$ (Fixed decimal)		
	-328 – 1472 -199.9 – 999.9	-199 – 800 -128.8 – 537.7
<b>DC linear:</b>	10 – 50 mV 4 – 20 mA 1 – 5 V 2 – 10 V	0 – 50 mV 0 – 20 mA 0 – 5 V 0 – 10 V

Operating Conditions			
	Reference Conditions	Operative Limits	Transportation and Storage
<b>Ambient Temperature</b>	20 °C ± 2 °C (68 °F ± 4 °F)	0 °C to 55 °C (32 °F to 131 °F)	-20 °C to 80 °C (-4 °F to 176 °F)
<b>Relative Humidity</b>	60-70 %	20-95 % non -condensing	
<b>Voltage</b>	90-264 Vac ± 1 %	90-264 Vac	
<b>Frequency</b>	50 Hz	50-60 Hz	
<b>Source Resistance</b>	< 10 ohms for thermocouple	1000 ohms maximum for thermocouple	
<b>Lead resistance for RTD</b>	< 0.1 ohm/lead (PT100)	50 ohms per lead maximum balanced	

## Sales and Service

For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below.

**Asia Pacific Global Technical Support Field Instruments**

Phone: +65 6580 3156  
Fax: +65 6445-3033

**Australia**

Honeywell Limited  
Phone: +(61) 7-3846 1255  
FAX: +(61) 7-3840 6481  
Toll Free 1300-36-39-36  
Toll Free Fax: 1300-36-04-70

**China – PRC - Beijing**

Honeywell China Inc.  
Phone: +(86-10) 8458-3280  
Fax: +(86-10) 8458-4650

**China – PRC - Shanghai**

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Phone: (86-21) 5257-4568  
Fax: (86-21) 6237-2826

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Honeywell China Inc.  
Phone: +(86-28) 6613-5078  
Fax: +(86-28) 8678-7061

**China – PRC - Xi'an**

Honeywell China Ltd - Xi'an.  
Phone: +(86-29) 8833-7490  
Fax: +(86-29) 8833-7489

**China – PRC - Shenzhen-**

Honeywell China Inc.  
Phone: +(86) 755-2518-1226  
Fax: +(86) 755-2518-1221

**Indonesia**

PT Honeywell Indonesia  
Phone: +(62) 21-535-8833  
FAX: +(62) 21-5367 1008

Honeywell Automation India Ltd.

Honeywell Ltd.  
Phone: +(91) 6603-9400  
Fax: +(91) 6603-9600

**Japan**

Honeywell Inc.  
Phone: +(81) 3 6730 7197  
Fax: +(81) 3 6730 7228

**Malaysia**

Honeywell Engineering Sdn Bhd  
Phone: +(603) 7958-4788  
Fax: +(603) 7958-8922

**New Zealand**

Honeywell Limited  
Phone: +(64-9) 623-5050  
Fax: +(64-9) 623-5060  
Toll Free (0800) 202-088

**Singapore**

Honeywell Pte Ltd.  
Phone: +(65) 6580 3278  
Fax: +(65) 6445-3033

**South Korea**

Honeywell Korea Co Ltd  
Phone: +(822) 799 6114  
Fax: +(822) 792 9015

**Thailand**

Honeywell Systems (Thailand) Ltd.  
Phone: +(662) 693-3099  
FAX: +(662) 693-3089

**Taiwan R.O.C.**

Honeywell Taiwan Ltd.  
Phone: +(886-2) 2245-1000  
FAX: +(886-2) 2245-3243

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see Honeywell Automation India Ltd for: Bangladesh Nepal Sri Lanka

**EUROPE**

**Austria**  
Honeywell Austria GmbH  
Phone: +43 (316)400123  
FAX: +43 (316)40017

**Belgium**

Honeywell SA/NV  
Phone: +32 (0)2728 24 07  
FAX: +32 (0)2728 22 45

**Bulgaria**

Honeywell EOOD  
Phone: +(359) 2 40 20 900  
FAX: +(359) 2 40 20 990

**Czech Republic**

Honeywell spol. s.r.o.  
Phone: +420 242 442 232  
FAX: +420 242 442 131

**Denmark**

Honeywell A/S  
Phone: +(45) 39 55 55 55  
FAX: +(45) 39 55 55 58

**Finland**

Honeywell OY  
Phone: +358 (0)20752 2753  
FAX: +358 (0) 20752 2751

**France**

Honeywell SA  
Phone: +33 (0)1 60198075  
FAX: +33 (0)1 60198201

**Germany**

Honeywell AG  
Phone: +49 (69)8064-299  
FAX: +49 (69)806497336

**Hungary**

Honeywell Kft.  
Phone: +36-1-451 4300  
FAX: +36-1-451 4343

**Italy**

Honeywell S.p.A.  
Phone: +390292146307  
FAX: +39 0292146377

**The Netherlands**

Honeywell B.V.  
Phone: +31 (0) 20 5656200  
FAX: +31 (0) 20 5656210

**Norway**

Honeywell A/S  
Phone: (45) 39 55 55 55

**Poland**

Honeywell Sp. zo.o  
Phone: +48-22-6060900  
FAX: +48-22-6060901

**Portugal**

Honeywell Portugal Lda  
Phone: +351 21 424 5000  
FAX: +351 21 424 50 99

**Romania**

Honeywell Bucharest  
Phone: +40 (0) 21 2316437  
FAX: +40 (0) 21 2316439

**Russian Federation (RF),**

Honeywell Field Solutions  
Kievskaya str., 7,  
Moscow 121059, Russia  
Phone +7 (495) 796 98 60  
Fax +7 (495) 797 99 64

**Slovak Republic**

Honeywell s.r.o.  
Phone: +421-2-58247 410  
FAX: +421-2-58247 415

**Spain**

Honeywell S.A.  
Phone: +34 (0)91313 61 00  
FAX: +34 (0)91313 61 30

**Sweden**

Honeywell AB  
Phone: +(46) 8 775 55 00  
FAX: +(46) 8 775 56 00

**Switzerland**

Honeywell AG  
Phone: +41 18552448  
FAX: +(41) 1 855 24 45

**Turkey**

Honeywell Turkey A.S.  
Phone: +90 216 578 71 00  
FAX: +90 216 575 66 35

**Ukraine**

Honeywell  
Tel: +380-44-201 44 74  
Fax: +380-44-201-44-75

**United Kingdom**

Honeywell Control Systems Ltd.  
Phone: +44 (0)1344 655251  
FAX: +44 (0) 1344 655554

**MIDDLE EAST**
**Abu Dhabi U A E**

Middle East Headquarters  
Honeywell Middle East Ltd.  
Phone: +971 2 4041246  
FAX: +971 2 4432536

**Sultanate of Oman**

Honeywell & Co Oman LLC  
Phone: +968 24 701153/  
Ext.33  
FAX +968 24 787351

**Saudia Arabia**

Honeywell Turki Arabia Ltd  
**Jubail Office**  
Phone: +966-3-341-0140  
Fax: +966-3-341-0216  
Honeywell - ATCO  
**Dammam Office**  
Phone: 0096638304584  
Fax: 0096638338059

**Kuwait**

Honeywell Kuwait KSC  
Phone: +965 242 1327 to 30  
Fax: +965 242 8315  
And  
Phone: +965 326  
2934/1821Fax: +965 326  
1714

**AFRICA**
**Mediterranean & African**

Distributors  
Honeywell SpA  
Phone: +39 (02) 250 10 604  
FAX: +39 (02) 250 10 659

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Honeywell Southern Africa  
Honeywell S.A. Pty. Ltd.  
Phone: +27 11 6958000  
FAX +27 118051504

**NORTH AMERICA**
**Canada**

Honeywell LTD  
Phone: 1-800-737-3360  
FAX: 1-800-565-4130

**USA**
**Honeywell Process Solutions,**

Phone: 1-800-423-9883  
Or 1-800-343-0228  
Email: [ask-ssc@honeywell.com](mailto:ask-ssc@honeywell.com)

**SOUTH AMERICA**
**Argentina**

Honeywell S.A.I.C.  
Phone: +(54-11) 4383-3637  
FAX: +(54-11) 4325-6470

**Brazil**

Honeywell do Brasil & Cia  
Phone: +(55-11) 7266-1900  
FAX: +(55-11) 7266-1905

**Chile**

Honeywell Chile, S.A.  
Phone: +(56-2) 233-0688  
FAX: +(56-2) 231-6679

**Mexico**

Honeywell S.A. de C.V.  
Phone: +(52) 55 5259-1966  
FAX: +(52) 55 5570-2985

**Puerto Rico**

Honeywell Inc.  
Phone: +(809) 792-7075  
FAX: +(809) 792-0053

**Trinidad**

Honeywell Inc.  
Phone: +(868) 624-3964  
FAX: +(868) 624-3969

**Venezuela**

Honeywell CA  
Phone: +(58-2) 238-0211  
FAX: +(58-2) 238-3391



Model Selection Guides are subject to change and are inserted into the specifications as guidance only. Prior to specifying or ordering a model check for the latest revision Model Selection Guides which are published at: <http://hpsweb.honeywell.com/Cultures/en-US/Products/Instrumentation/ProductModelSelectionGuides/default.htm>

**Model Selection Guide**



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# UDC1200 MICRO-PRO Universal Digital Controller

## Model Selection Guide

**Instructions**

- Select the desired key number. The arrow to the right marks the selections available.
- Make one selection each from Tables I through VIII using the column below the proper arrow.

<b>Key Number</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>	<b>VI</b>	<b>VII</b>	<b>VIII</b>
DC _ _ _ _	-	-	-	-	-	-	-	-

KEY NUMBER	Description	Selection	Availability					
1/16 DIN Controller:	RTD or Linear mV	DC1201	↓					
48x48mm	Thermocouple	DC1202		↓				
<b>Input Type</b>	Linear mA	DC1203			↓			
(Field Selectable)	Linear Voltage	DC1204				↓		
	Limit Controller - FM Approved	DC120L					↓	
	TPSC Controller (Thermocouple Factory Set)	DC120T						↓

**TABLE I**

Output 1	Description	Selection	1	2	3	4	5	6	7
	Relay	1	•	•	•	•	•	•	•
	SSR Driver	2	•	•	•	•	•	•	•
	Linear: 0 - 10 Volts	3	•	•	•	•	•	•	•
	Linear: 0 - 20 mA	4	•	•	•	•	•	•	•
	Linear: 0 - 5 Volts	5	•	•	•	•	•	•	•
	Linear: 4-20mA	7	•	•	•	•	•	•	•

**TABLE II**

Output 2	Description	Selection	0	1	2	3	4	5	6	7	8	9
	None	0	•	•	•	•	•	•	•	•	•	•
	Relay	1	•	•	•	•	•	•	•	•	•	•
	SSR Driver	2	•	•	•	•	•	•	•	•	•	•
	Linear: 0 - 10 Volts	3	•	•	•	•	•	•	•	•	•	•
	Linear: 0 - 20 ma	4	•	•	•	•	•	•	•	•	•	•
	Linear: 0 - 5 Volts	5	•	•	•	•	•	•	•	•	•	•
	Linear: 4-20mA	7	•	•	•	•	•	•	•	•	•	•
	Dual Relay Board	9										•

**TABLE III**

Output 3	Description	Selection	0	1	2	7	8
	None	0	•	•	•	•	•
	Relay	1	•	•	•	•	•
	SSR Driver	2	•	•	•	•	•
	Linear: 4-20mA	7	•	•	•	•	•
	Transmitter Power Supply (24Vdc)	8	•	•	•	•	•

**TABLE IV**

Communications	Description	Selection	0	1	2	3	4
	No Selection	0	•	•	•	•	•
	RS485 ASCII Serial Communication	1	•	•	•	•	•
	Digital Input (SP1/SP2 Selection or Auto/Manual Selection or DC100L Remote Reset)	2	•	•	•	•	•
	RS485 MODBUS Communication	3	•	•	•	•	•
	Basic Remote Setpoint	4	•	•	•	•	•

		DC120_	Availability					
		Selection	↓	↓	↓	↓	↓	↓
			1	2	3	4	L	T
<b>TABLE V</b>								
Power Supply	Power Supply 90 to 264 Vac	1	•	•	•	•	•	•
	Power Supply 24 to 48 Vac/dc	2	•	•	•	•	•	•
<b>TABLE VI</b>								
Manuals	English (51-52-25-123)	0	•	•	•	•	•	•
(Single sheet	French (51-52-25-123-FR)	1	•	•	•	•	•	•
Concise manuals	German (51-52-25-123-GE)	2	•	•	•	•	•	•
for UDC1200)	Italian (51-52-25-123-IT)	3	•	•	•	•	•	•
	Spanish (51-52-25-123-SP)	4	•	•	•	•	•	•
<b>TABLE VII</b>								
Packaging	Individual Carton	0	•	•	•	•	•	•
	Bulk Pack of 10 identical models	1	•	•	•	•	•	•
	Bulk Pack of 50 identical models	2	•	•	•	•	•	•
	Bulk Pack of 100 identical models	3	•	•	•	•	•	•
<b>TABLE VIII</b>								
Specials	UDC1200 style overlay	0	•	•	•	•	•	•
	Special Instrument (Consult Factory)	S						

## UDC1200 MICRO-PRO Universal Digital Controller

## Supplemental Accessories & Kits

Description	Part Number
<b>Option Slot 1</b>	
Relay module	51453391-501
10 Vdc SSR Driver module	51453391-502
Linear (mA/Vdc) module	51453391-504
<b>Option Slot 2 &amp; 3</b>	
Relay module	51453391-506
10 Vdc SSR Driver module	51453391-507
Linear (mA/Vdc) module	51453391-509
Dual Relay Board (Slot 2 only)	51453391-510
24Vdc transmitter module (Slot 3 only)	51453391-511
<b>Option Slot A</b>	
RS485 communication module	51453391-512
Digital Input module	51453391-513
Basic Remote Setpoint module	51453391-515
<b>Others</b>	
PC Software (includes the cable)	51453391-514
Product Manual (8 1/2 x 11)	English 51-52-25-122
	French 51-52-25-122-FR
UDC1000/1200 Fixing strap	46189016-501
UDC1500/1700 Fixing strap	46189017-501
UDC1000/1200 Replacement case	46189018-501
UDC1500/1700 Replacement case	46189019-501
DIN Rail Adaptor Kit	46189025-501



**Model Selection Guide (continued)**

			DC170	Availability					
			Selection	1	2	3	4	T	R
<b>TABLE IV</b>									
Option 1	No Selection		0	•	•	•	•	•	•
	RS485 ASCII Serial Communication		1	•	•	•	•		•
	Digital Input (SP1/SP2 Selection)		2	•	•	•	•	•	•
	RS485 MODBUS Communication		3	•	•	•	•	•	•
	Basic Remote Setpoint		4	•	•	•	•	•	
<b>TABLE V</b>									
Option 2	Power Supply 90 to 264 Vac		1	•	•	•	•	•	•
	Power Supply 24 to 48 Vac/dc		2	•	•	•	•	•	•
<b>TABLE VI</b>									
Manuals (Single sheet Concise manuals for UDC1200)	English	(51-52-25-123)	0	•	•	•	•	•	•
	French	(51-52-25-123-FR)	1	•	•	•	•	•	•
	German	(51-52-25-123-GE)	2	•	•	•	•	•	•
	Italian	(51-52-25-123-IT)	3	•	•	•	•	•	•
	Spanish	(51-52-25-123-SP)	4	•	•	•	•	•	•
<b>TABLE VII</b>									
Packaging	Individual Carton		0	•	•	•	•	•	•
	Bulk Pack of 10 identical models		1	•	•	•	•	•	•
	Bulk Pack of 50 identical models		2	•	•	•	•	•	•
<b>TABLE VIII</b>									
Special	None		0	•	•	•	•	•	•
	Special Instrument (Consult Factory)		S						

<b>UDC1700 MICRO-PRO</b>		<b>Supplemental</b>	
<b>Universal Digital Controller</b>		<b>Accessories &amp; Kits</b>	
<b>Description</b>		<b>Part Number</b>	
<b>Option Slot 1</b>			
Relay module		51453391-501	
10 Vdc SSR Driver module		51453391-502	
Linear (mA/Vdc) module		51453391-504	
<b>Option Slot 2 &amp; 3</b>			
Relay module		51453391-506	
10 Vdc SSR Driver module		51453391-507	
Linear (mA/Vdc) module		51453391-509	
Dual Relay Board		51453391-510	
24Vdc transmitter module (Slot 3 only)		51453391-511	
<b>Option Slot A</b>			
RS485 communication module		51453391-512	
Digital Input module		51453391-513	
Basic Remote Setpoint module		51453391-515	
<b>Option Slot B</b>			
Full remote Setpoint module (to upgrade a DC1700 to a DC170R)		51453391-516	
<b>Others</b>			
PC Software (includes the cable)		51453391-514	
Product Manual (8 1/2 x 11)		English	
		51-52-25-122	
		French	
		51-52-25-122-FR	
UDC1000/1200 Fixing strap		46189016-501	
UDC1500/1700 Fixing strap		46189017-501	
UDC1000/1200 Replacement case		46189018-501	
UDC1500/1700 Replacement case		46189019-501	
DIN Rail Adaptor Kit		46189025-501	

**Warranty/Remedy**

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is **in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.** Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

*Specifications are subject to change without notice.*

**For More Information**

Learn more about how Honeywell's UDC1200/1700 Micro-Pro Series can monitor and control temperatures, pressures and levels in a wide range of applications visit our website [www.honeywell.com/ps/hfs](http://www.honeywell.com/ps/hfs) or contact your Honeywell account manager.

**Honeywell Process Solutions**

1860 W. Rose Garden Lane  
Phoenix, Arizona 85027  
Tel: 1-800-423-9883 or 1-800-343-0228  
[www.honeywell.com/ps](http://www.honeywell.com/ps)

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