UDC 1000 and UDC 1500 Micro-Pro Series: Unmatched Price and Performance in Compact Digital Controllers

Proven LeaderLine quality, accuracy, and value

The UDC 1000 and UDC 1500 Micro-Pro are compact 1/16 DIN and 1/8 DIN microprocessor-based controllers that provide Honeywell's high quality and performance at low cost. Their very small size makes them ideally suited for applications where panel space is at a premium, but where performance and versatility are also important considerations.

Key features include dual display, NEMA 4/IP66 front-face protection, universal input and power supply, up to three output types (relay, SSR, linear), auto-manual mode, automatic tuning, and RS485 ASCII communication.

An unbeatable price

The UDC 1000 and UDC 1500 have been de-signed to offer maximum performance at a very low price.

Easy to configure

Two 4-digit displays and four tactile feedback keys enable you to configure the controller with minimum time and effort.

High reliability plus 2-year warranty

State-of-the-art manufacturing enables Micro-Pro con-trollers to conform to Honeywell's high quality standards. The UDC 1000 and UDC 1500 are backed by a 2-year warranty and Honeywell's Technical Assistance Center.

Flexibility

Universal inputs, universal power supply, and plug-in option boards (relay, SSR, linear, and communication) result in a reduced inventory.

Low cost limit control

An FM-approved limit control model (1/16 DIN UDC 1000) is available for safety cutoff applications.

Application versatility

Advanced tuning, auto-manual switching, setpoint ramping, and communication features allow the UDC 1000 and UDC 1500 to control temperature, pressure, and other variables in a wide range of applications such as plastics extruders, ovens and furnaces, chambers, sterilizers, food equipment, packaging, and coolers.

Main features

- Sealed front-face (NEMA 4/IP66)
- Dual 4-digit display
- 2-year warranty
- Universal input
- Universal power supply
- Three plug-in output types: relay, SSR, DC
- Output algorithm: time proportioning, current, three-position step control, heat/cool
- PV or SP retransmission
- Setpoint ramp
- Pre-tune and self-tune
- Loop alarm
- Configuration lockout with password
- Dual alarms
- Communication : RS485 ASCII
- Auto/manual switching
- UL recognized
- FM-approved limit model
- CSA certification available
- CE Mark conformity

Condensed Specifications

CE Mark conformity	Full conformity with EMC Directive 89/336/EEC
Accuracy	+/- 0.25% of span +/- 1 LSD
Front-face protection	NEMA 4 / IP66 rating
Operating temperature	0° to 55°C / 32° to 131°F
Relative humidity	20% to 95%
PV input	Keyboard-selectable: • Thermocouple: R, S, J, T, K, L, B • RTDs: PT100 • Linear: 0-20mA, 4-20mA, 0-50mV, 10-50mV, 0-5V, 1-5V, 0-10V, 2-10V
Input sampling rate	4 times per second
Control outputs	Current-proportioning: 0-20mA or 4-20mA Time proportioning with: • Electromechanical SPDT relay (2A/240V) • SSR driver (>4.3V into 250 ohms minimum) • Three-position step control • Time- and current-proportional duplex
Control algorithm	Configurable for: • On/Off with adjustable hysteresis (0.1 to 10%) • PID • PD + Manual reset
Alarms	Up to 2 SPDT relays (2A/240V) based on: • PV high or low alarm • Deviation high or low alarm • Band alarm • Logical AND or OR alarm combination • Loop alarm
Power supply	90 to 264 Vac 50/60 Hz 24 to 48 Vac/dc optional

Product Dimensions: UDC 1000

Front face	48 x 48 mm (1.89 x 1.89 inches)
Depth	110 mm (4.33 inches)
Panel cutout	45 x 45 mm (1.77 x 1.77 inches)

Product Dimensions: UDC 1500

Front face	48 x 96 mm (1.89 x 3.78 inches)
Depth	100 mm (3.94 inches)
Panel cutout	45 x 92 mm (1.77 x 3.62 inches)

LeaderLine: The Best Performance, the Best Price

LeaderLine products are engineered to give you maximum performance for minimum investment. Every LeaderLine product offers the best price/performance combination of any competitive instrument in its class and features Honeywell quality, assured by a comprehensive warranty program and a customer support network second to none. LeaderLine instruments provide functions targeted to specific applications, so you buy only the performance you need.

Honeywell

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