

UDC100 1/4 DIN OEM Controller

Low Cost Alternative to Control your Machine Process



MEASUREMENT & CONTROL



YEAR 2000 READY

The UDC 100 line of 1/4 DIN Universal Digital Controllers combines the highest operating simplicity with the ultimate in low cost of ownership for OEM customers. Their simple control algorithm and analogue-feel ergonomics make them ideal for applications such as food processing (e.g. bakery ovens), small industrial furnaces and ceramics kilns. The UDC 110 and UDC 120 versions provide extra functionality such as integral timer, alarms and 2-loop control, increasing their range of applications and further reducing total cost.

Family Features:

Quality at Low Cost

All design, technology and manufacturing choices have been driven by our goal to reduce the cost to our OEM customers to the lowest possible level, with absolutely no sacrifice in quality, reliability and functionality. The UDC 100 line is also designed to be easy to customise.

Analogue-feel Ergonomics

A dial-based human interface conceals the power of the high-performance microprocessor control with the most intuitive operation. Precise fingertip control is the ultimate in user friendliness. Parameter values can either be pre-loaded in out factory or through a PC.

Simple Control in an Integrated Unit

Based on a microprocessor solution, the UDC 100 provides a simple ON-OFF or PID control algorithm with all the benefits of digital technology. It offers supreme regulatory control at low cost. The UDC 100 is quick and easy to integrate, leading to space and cost savings.

Specific Features:

UDC 100

- One highly visible 3-digit red display
- Only 55mm deep to meet most machine construction requirements
- IP54/NEMA 3 front face rating
- OEM site or factory PC-configurable for range and control

UDC 110

- Dual 3 digit red/green display
- Displays for PV and SP
- UDC110T: Integral timer function with set/start/stop keys and dedicated relay actuation
- UDC110A: One alarm relay output version with 5 different alarm types

UDC 120

- Dual 3-digit red display
- Dual loop controller with 2 independent:
 - Displays for PVs
 - Control algorithms
 - Relay outputs
- Possibility to have one single SP for both loops.

Condensed Specifications

Accuracy	±0.5% span ±1 LSD
Sampling Rate	4 times per seconds (2times per sec. for 2-loops model)
Front Face Protection	IP54/NEMA 3
Operating Temperature	0°C to 60°C (32°F to 140°F)
Relative Humidity	20-95% non-condensing
Power Supply	115/230 Vac 50/60Hz 24/48 VAC 50/60 Hz
Analogue Input	<ul style="list-style-type: none">• 1 or 2 low level inputs• Types: Thermocouple: J, K, T, L, S, R RTD: PT100 Linear: mV, mA
Control Capability	ON-OFF PID (option with 4 digit display) Time proportioning: relat SSR driver

Product Dimensions

Front Face	96 x 96mm (3.78 x 3.78 inches)
Depth	55mm (2.16 inches)
Panel Cutout	92 x 92mm (3.62 x 3.62 inches)

Honeywell

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