UDC 100 Family
¼ Din OEM Controllers

The Low Cost Alternative To Control Your Machine Process

The UDC100 line of ¼ 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 analog-feel ergonomics make them ideal for applications such as food processing (e.g. bakery ovens), small industrial furnaces and ceramics kilns. The UDC110 and UDC120 versions provide extra functionality such as integral timer, alarms and 2-loop control, increasing their range of applications and further reducing total cost.

UDC 110T Timer version

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 UDC100 line is also designed to be easy to customize.

Analog-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 be either preloaded in our factory or through a PC.

Simple Control In An Integrated Unit

Based on a microprocessor solution, the UDC100 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 UDC100 is quick and easy to integrate, leading to space and cost savings.

Specific Features :

UDC 100
- One highly visible 3-digit red display
- Only 55 mm deep to meet most machine construction requirements
- IP54 / NEMA3 front face rating
- OEM site or factory PC-config-urable 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% of span ± 1LSD
Sampling Rate	4 time per second (2 time per sec for 2 loops model)
Front Face Protection	IP54/NEMA3
Operating Temperature	0°C to 60°C /32°F to 140°F
Relative Humidity	20 - 95% non condensing
Power Supply	115/230 Vac 50/60 Hz 24/48 Vac 50/60 Hz
Analog Input	• 1 or 2 low level input • Types : Thermocouple : J, K, T, L, S, R RTD : PT100 Linear : mV, mA
Control Capability	ON-OFF PID (option with 4 digits display) Time Proportioning : Relay, SSR driver

Product Dimensions

Front Face	96x96mm (3.78 x 3.78 inches)
Depth	55 mm (2.16 inches)
Panel Cutout	92x92 mm (3.62 x 3.62 inches)

Distributor:

Honeywell