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# UDC2000 Mini-Pro Universal Digital Controller

#### Overview

The UDC2000 Mini-Pro is a low cost member of Honeywell's Leaderline tamily of microprocessor-based, digital controllers. It monitors and controls temperatures and other variables in applications such as environmental chambers, plastic processing machines, turnaces and ovens and packaging machinery.

The Mini-Pro is a low cost alternative to more expensive controllers without compromising quality or performance. It can be used to control variables such as temperature, pressure, flow, level, and rotation. A limit control model is also available.

The Mini-Pro has a high degree of functionality. A dedicated configuration display provides multi-language prompts providing unmatched operating simplicity. Programmed sequences of displays assure quick and accurate entry of all configurable parameters. Simple keystrokes let you change the operating parameters to meet your process control needs.

#### Features.

Low-Cost - This Mini-Pro meets Honeywell's high performance standards at a surprisingly affordable price.

Easy to Configure - A bright dedicated configuration display provides straightforward multilanguage prompts that allow easy set-up with minimum time and effort.

Universal inputs - Accepts 10 thermocouple types, RTDs, Radiamatics RH, mA, mV or voltage inputs through simple configuration.

Thermocouple Fallsafe -Configurable upscale or downscale burnout or fallsafe output level.



Figure 1 - UDC2000 Mini-Pro Controller

#### Features, continued

Accutume II - This standard feature provides a new, truly plug and play tuning algorithm, which will, at the touch of a button, accurately identify and tune any process including deadtime and integrating processes. This speeds-up and simplifies startup plus allows retuning at any setpoint.

Fuzzy Logic-This new feature uses fuzzy logic to suppress process variable overshoot which can result from setpoint changes or externally induced process disturbance.

It operates independently from Accutume Tuning. It does not change the PiD constants, but temporarily modifies the internal controller response to suppress overshoot. This allows more aggressive tuning to co-exist with smooth process variable response. It can be enabled or disabled depending on the application or the control criteria.

#### Features, continued

UL Recognized Component - This is a standard feature for all models for regulatory use only.

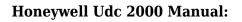
CE Mark- Conformity with 73/23/EEC, Low Voltage Directive and 69/336/EEC, the EMC Directive

Dual Setpoints - Simple pushbutton selection allows quick switchover from primary to alternate setpoint with minimal operator confusion.

Limit Control - This model provides a latching relay which is activated whenever the PV goes above (High Limit) or below (Low Limit) a preset setpoint value. An alarm message will be displayed when the output is activated. Reset is through a key on the front of the controller or an optional external switch. Normal display can be configured to indicate process variable or setpoint. Only T/C or RTD inputs are available on Limit models. FM approval is available.

# **Honeywell Udc 2000 Manual**

Katrin Zwirglmaier



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