

UDC2300

Universal Digital Controller

Specification

Overview

The UDC 2300 Universal Digital Controller is a new low priced addition to Honeywell's LeaderLine family.

This controller introduces new features in the popular low priced 1/4 DIN size while retaining all the reliability, cost effectiveness, simplicity, and popular HMI of Honeywell's UDC 2000.

The UDC 2300 monitors and controls temperatures and other variables in applications such as environmental chambers, plastic processing machines, furnaces and ovens, and packaging machinery. The standard features include AccutuneII™ and the popular single display, automatic mode model. A Dual Display model with Automatic/Manual control modes is optional. A Limit Control model is also available.

The UDC 2300 provides a low priced, 1/4 DIN sized alternative for many applications. Its new features include:

- Universal AC power supply,
- RS485 ASCII or Modbus® RTU communications option,
- Input/Output isolation, and
- Isolated Auxiliary Current output.

These features when combined with the new AccutuneII™ tuning with Fuzzy Logic overshoot suppression, result in price/performance leadership in the performance segment positioned below the UDC 3300 Controller.

For the many thousands of satisfied UDC 2000 users, UDC 2300 is downward compatible with existing UDC 2000 applications and installations. It even uses the same case; therefore, it can be easily inserted into existing panel installations.



Figure 1—UDC 2300 Controller has a sealed faceplate suitable for hosedown applications

Features/Options

High Accuracy—Typically $\pm 0.25\%$ of full scale input with a typical resolution of 15 bits.

Analog Inputs—Two inputs are available. The first input accepts all thermocouple, RTD, mA, mV, and voltage types (See Table 1.). Alternatively, the second input is a high level input and can be used as a remote setpoint, for data acquisition, a parameter to be alarmed on. All input types are configurable. All inputs are sampled six times per second (every 166 ms). These two inputs are isolated from all other inputs and outputs, but not from each other.

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

Manual/Automatic Modes—Bumpless, balanceless transfer between control modes. Available with a Dual Display option and SP Programming option.

Features/Options, continued

Accutune II™—This standard feature provides a new, truly plug and play tuning algorithm, which will, at the touch of a button or through a digital input, accurately identify and tune any process including those with deadtime and integrating processes. This speeds up and simplifies start-up plus allows retuning at any setpoint.

Fuzzy Logic—This standard feature uses fuzzy logic to suppress process variable overshoot due to SP changes or externally induced process disturbances. It operates independently from AccutuneII™ 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 PV response. It can be enabled or disabled depending on the application or the control criteria.

CE Mark—Conformity with 73/23/EEC, Low Voltage Directive and 89/336/EEC, the EMC Directive as a standard feature.

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