Field Products

Controllers, Indicators, and Set-Point Programmers

Process Control Made Easy

Honeywell controllers, programmers and indicators are engineered to deliver solutions tailored to your specific process control requirements so you only buy what you need.

General Purpose Controllers
Efficient, Effective, Easy

Efficient operation of your process demands accurate control at a cost effective price. Honeywell addresses these needs with a line of general purpose controllers at competitive prices. Included are temperature controllers with relay outputs for on-off control of ovens, and controllers with analog outputs to position actuators, valves and speed couplings. The UDC 700 1/32 DIN controller is your easy choice for applications where panel space is limited. Other features on selected models are digital inputs, alarm outputs and RS485 ASCII or Modbus communication.

Available on Selected Models:

- Single or Dual Loop Control to match your needs
- Universal analog inputs for easy installation
- Analog or Digital outputs to control your process
- Digital outputs for alarming
- Digital inputs for selecting control functions
- Dial based operator interface
- NEMA 4 / IP66 front face for outside installation
- 1/32 to 1/4 DIN size to adapt to your panel
- RS 485 ASCII or Modbus for easy networking

Enhanced Controllers
Configuration and Operation made Quick and Easy

Honeywell offers a complete line of enhanced controllers with incremental levels of functionality and cost for processes requiring more than general purpose control. Available for both single-loop and dual-loop applications, this selection helps save you money because you only purchase the additional capability you need.

All Honeywell enhanced controllers feature easy to read prompts for quick configuration and operation. Unique features such as Accutune III and Fuzzy Logic overshoot protection, as well as HealthWatch diagnostic software, are available on selected models.

Available on Selected Models:

- Single or dual loop control to match your needs
- Universal analog inputs for easy installation
- RH, Radiamatic, carbon and oxygen inputs
- Analog or digital outputs to control your process
- Digital outputs for alarming
- Digital inputs for selecting control functions
- HealthWatch diagnostic software
- Accutune III tuning and Fuzzy Logic Overshoot Protection
- RS 422/485 ASCII or Modbus RTU for easy networking
- Ethernet communications
- Infrared communications port

From standalone instruments and smart sensors to integrated systems, Honeywell offers a comprehensive portfolio of process measurement and control solutions. Authorized distributors and system integrators provide local support, expertise and training to help you achieve maximum return from your investment.

Universal Digital Controllers
Easy to Install, Easy to Configure, Easy to Operate and Easy to Own

Built on a legacy of performance and reliability, our UDC2500, EDC3200 and UDC3500 controllers deliver even more power, more flexibility and higher performance.

Features
- Infrared PC and Pocket PC Configuration
- NEMA 4X, IP65 Front Face Protection
- Accutune III
- Ethernet and Modbus Communications

Typical Applications
- Metals, Glass, Ceramics, Plastics
- Food and Beverage
- Furnaces and Ovens
- Painting and Coating

Set Point Programmers
From Basic to Complex—It's an Easy Choice

Digital control programmers perform predetermined processing or testing schedules on a time-versus-set point program. Honeywell offers programmers that perform basic to complex recipes and feature universal inputs. Available in single and multi-channel models, Honeywell programmers can support up to 99 program profiles with up to 99 segments per profile.

Available on Selected Models:
- 4-99 programs, 16-99 segments per program
- Single or dual loop control to match your needs
- Universal analog inputs for easy installation
- Analog or digital outputs to control your process
- Digital outputs for alarming
- Digital inputs for selecting control functions
- RS 485 ASCII or Modbus
- RH inputs
- LCD touch screen

Indicators
High Performance and High Quality at an Affordable Price

Honeywell single and dual digital indicators provide display of process variables with a wide choice of functionality. These indicators combine high performance and quality at an affordable price, making them ideally suited for most applications. Honeywell indicators are perfect companions for applications requiring both control and accurate indication. They are based on the same field proven design platform as our controllers.
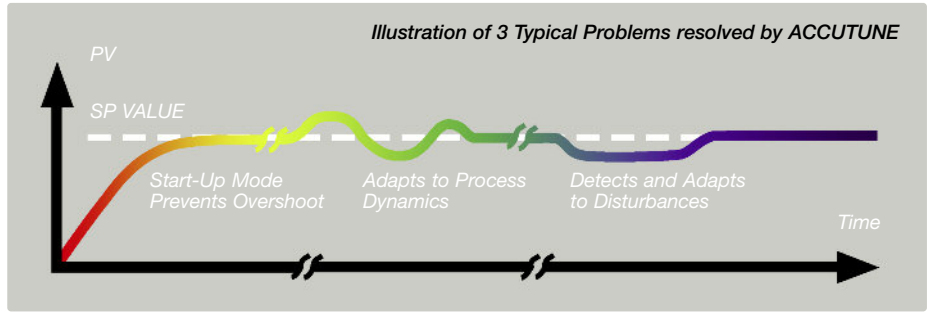
Available on Selected Models:
- Universal analog inputs for easy installation
- RH, Radiamatic inputs
- Digital outputs for alarming
- 24 VDC transmitter power supply
- 1/32 to 1/4 DIN size
- RS 422/485 ASCII or Modbus RTU for easy networking

Easy System Tuning with Accutune™ III & Fuzzy Logic Available on the UDC 2500, 3200 and 3500 Controllers

Accutune III provides a 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 integrating processes and those with deadtime. This speeds up and simplifies startup, plus allows automatic retuning at any setpoint. Also, Accutune adaptive tuning algorithm will automatically and continuously retune whenever a setpoint step change is implemented or whenever a process variable disturbance occurs.

Illustration of 3 Typical Problems resolved by ACCUTUNE

PV

SP VALUE

Start-Up Mode Prevents Overshoot

Adapts to Process Dynamics

Detects and Adapts to Disturbances

Time

Fuzzy Logic is used to suppress process variable overshoot due to setpoint changes or externally induced process disturbances. It operates independently from Accutune tuning. It does not change PID constants, but temporarily modifies the internal controller response to suppress overshoot. This makes it easier to use more aggressive tuning to maintain smooth process variable responses. Fuzzy Logic can be enabled or disabled depending on your application or the control criteria.

Controllers	Accuracy	Loops	Digital Outputs Control	Analog Inputs/ Analog Outputs	Digital Inputs/ Alarm Outputs	Panel Size (HxW)
UDC 100	0.5%	1	1 or 2	1 or 2 / Pending	0 / 1	1/4 DIN
UDC 700	0.1%	1	1 or 2	1 / 0	0 / 1 or 2	1/32 DIN
UDC 1200	0.1%	1	1 or 2	1 / up to 3	1 / 1 or 2	1/16 DIN
UDC 1700	0.1%	1	1 or 2	1 / up to 3	1 / 1 or 2	1/8 DIN
DC 1010	0.5%	1	1 or 2	1 or 2 / 1 or 2	0 / 1 to 3	1/16 DIN
DC 1020	0.5%	1	1 or 2	1 or 2 / 1 or 2	0 / 1 to 3	1/8 DIN
DC 1030	0.5%	1	1 or 2	1 or 2 / 1 or 2	0 / 1 to 3	3/16 DIN
DC 1040	0.5%	1	1 or 2	1 or 2 / 1 or 2	0 / 1 to 3	1/4 DIN
UDC 2500	0.25%	1	1 or 2	2 / 2	2 / 2	1/4 DIN
UDC 3200	0.20%	1	1 or 2	2 / 2	2 / 2	1/4 DIN
UDC 3500	0.1%	1 or 2	1 or 2	Up to 5 / Up to 3	Up to 4	1/4 DIN

Indicators	Analog Inputs	Display Type	Transmitter Power	Digital Inputs/ Alarm Outputs	Panel Size (HxW)
UDC 700	1	4 Digit LED	No	0 / 2	1/32 DIN
UDI 1700	1	4 Digit LED	Yes	1 / 3	1/8 DIN

Set Point Programmers	Loops	Programs/ Program Segments	Analog Inputs/ Analog Outputs	Digital Inputs/ Alarm Outputs	Panel Size (HxW)
DCP 50	1	4 / 16	1 / 1, 2 or 3	1 / 1 or 2	1/16 DIN
DCP 100	1	8 / 16	1 / 1, 2 or 3	6 / 8	1/4 DIN
DCP 200	1	64 / 255	1 / 1, 2 or 3	2 / 8	1/4 DIN
DCP 300	1 or 2	19 / 30	1 or 2 / 1, 2 or 3	12 / 8	1/4 DIN
DCP 550	1 or 2	99 / 99 *	1 or 2 / 1, 2 or 3	16 / 16 Events	9/16 DIN
IPC 5000	2	32 / 100 **	2 / 2	12 / 12	196x131 mm

* 2000 total max
** 800 total max

Honeywell