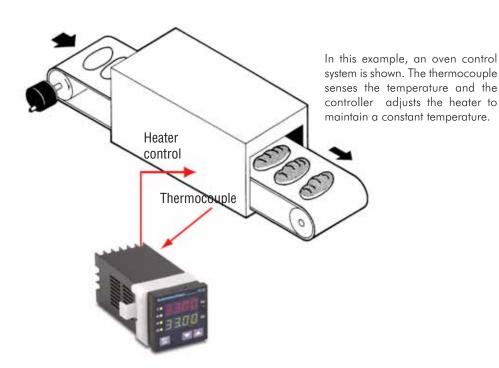
Temperature / Process Controllers

Temperature/Process Controllers Selection Guide			
	AutomationOtrect PAZA	AutomationClave: TC31	AutomationOriest PC38 A1 3500 W A2 3500 W
	On/Off Controller PM Series	Temperature Controller TC Series	Process Controller PC35 Series
Description	On/Off controller with two mechanical relays. Universal inputs include T/C, RTD, mA,mV, V Fully scalable display	Temperature controller with two mechanical relays and one 4-20mA output. Inputs include T/C and RTD. Autotune PID control with ramp and soak profile	Process controller with two mechanical relays and one 4-20mA output. Inputs include T/C, RTD, mA, mV, V. Autotune PID control with 49 segment ramp/soak profile
Input (Universal PV)	T/C, RTD, mA, mV, V	T/C, RTD	T/C, RTD, mA, mV, V
Input (Digital)	N/A	N/A	Optional: One
Outputs (Control, Alarm)	Two mechanical relays	Two mechanical relays or one mechanical relay Optional: One 4-20mA output Optional: DC pulse output	Two mechanical or two solid state relays Optional: One 4-20mA output Optional: DC pulse output
Output Relay Ratings	Mechanical 3A @ 250VAC	Mechanical 3A @ 250VAC	Mechanical 3A @ 250VAC Solid state 1A @ 240VAC
4-20 mA Load Rating	N/A	500Ω @ 12VDC	500Ω @ 24VDC
Input Power	90-260VAC	90-260VAC	90-260VAC
Control Routines	On/off control	PID, autotune, on/off control, Time proportioned	PID, autotune, time proportioned, ON, OFF
Security	Three level function protection via keypad	N/A	Seven level function protection via keypad
Enclosure Rating	NEMA 1 - faceplate	NEMA 1 - faceplate	Nema 1 - faceplate
Prices starting at	<>	<>	<>

Application example: oven temperature control





PLC Overview

DL05/06 PLC

DL105 PLC

DL205 PLC

DL305 PLC

DL405 PLC

Field I/O

Software

C-more HMIs

Other HMI

AC Drives

Motors

Steppers/ Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Current Sensors

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

TB's & Wiring

Power

.

Circuit Protection

Enclosures

Appendix

Part Index

PM/TC/PC Series Process Controllers



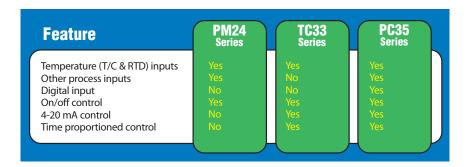
Process/temperature controllers with great features Control **Process** LED display Alarm 1 LED A1 Alarm 2 **LED** Function. Setpoint **Set** display Manual I FD **Pushbutton programming** All controllers offer: LCD display(s) · LED status indicators · Programming keys for easy setup and monitoring.

· Configurability. Many con-

the user to choose their input sensors and output control parameters before they can order the controller. Each controller has a predetermined input, such as a J-type thermocouple. If your application

changes, you must order a whole new controller. With these process/temperature controllers, all inputs and outputs are configurable from the front panel. With a push of a button, switch from a thermocouple input to a RTD input to a voltage/current input.

- Sensor break detection. All models include built-in logic to detect if an input sensor is broken. If a wire is cut or the sensor just guits working, the controllers will turn on an alarm contact. This feature could save thousands of dollars in lost
- Control logic. TC33 and PC35 controllers offer full "PID Autotuning" in the automatic or manual control modes. Algorithms available range from simple on/off control to full PID control including P, PI, or even PID control. This selectability allows the controller to be used in almost all types of applications.



23-12 Process Control 1 - 8 0 0 - 6 3 3 - 0 4 0 5