

PID Control Trainer PCT-PIDSM



Key Features:

- PID (auto-tune)
- 17 User selectable types including signal inputs
- Two alarm outputs
- 4 Programmable control zones
- Dual 4 digit display
- 2mm Input / Output connectors

The PID Controller familiarises students with the operation and principles of an industrial controller using different input signals. The PID controller is a sophisticated auto-tuning PID controller with selectable thermocouple, RTD, voltage or current inputs and two outputs, relay and voltage output. The controller can be configured as one on/off or PID control and up to two alarm outputs, or as two on/off or PID controls (heat/cool) plus alarm output. It has a large dual four digit LED display to show the set point and the process value.

Specification

Universal Input	17 User selectable types including signal inputs
Selectable lower display	User selectable lower display option enables quick setting of different parameters such as Set points, Alarms, PID values, and Tuning
Zone PID	4 Programmable control zones
Outputs	1 x 0 to 10v Voltage 1 x Relay
User selectable special modes	Output is selectable as control output or retransmission output Heater-Cool PID Auto/Manual Single point ramp/soak Soft start Dual 4 digit display Digital Filtering Sensor break indication Sensor error compensation Programmable parameter lockouts IP66 front panel
Control Action	PID (autotune) or on/off
Outputs 1 and 2	Forward or reverse action; Absolute or deviation alarm
Accuracy:	Greater of +/-0.25% FS or +/- 1°C
Resolution:	1/0.1°C for thermocouples/RTDs 1/0.1/0.01/0.001 for analogue I/P
Approvals:	Conforms to CE generic standards EN50081-1 and EN50082-1 for emc and EN61010-1 for low voltage
Ambient range:	0 to 50°C, 85% RH non-condensing

Weights and Dimensions

Un-Packed		Packed	
Approximate Dimensions (mm)	260W x 186D x 90H	Approximate Dimensions (mm)	300W x 250D x 200H
Approximate Weights	1.5 Kg	Approximate Weights	3Kg

Required

A suitable PC with Minimum; Pentium processor, 1GB RAM, 20GB HDD, CDROM Drive, USB 2 interface and Windows XP or above

Ordering Information

Model Number:	PCT-PIDSM
<i>Consists of:</i>	1 x PID Control Trainer 1 x PSU 1 x User Manual

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