Technical Specification

Model: EZ-PID001
First Order module
Dimensions: 210mm (L) x 140mm (W) x 80mm (H)
Voltage rating: +12V / -12V / GND
Connection: 4-pin power connector, 4x BNC connector

PID controller Module
Dimensions: 210mm (L) x 140mm (W) x 80mm (H)
Voltage rating: +12V / -12V / GND
Connection: 4-pin power connector, 3x BNC connector

Application Module
Dimensions: 270mm (L) x 160mm (W) x 80mm (H)
Voltage rating: +12V / GND
Connection: 2-pin power connector, 3x BNC connector

ATX Power Supply
Dimensions: 150mm (L) x 140mm (W) x 86mm (H)
DC Output: +12V / -12V / GND
Output Current: 28A
Connection: 4-pin connector / 2-pin connector

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*Specification subject to change without prior notice due to continuous improvements of the product
ITEMS INCLUDED

First Order Module
Analyze the characteristic of First Order system with typical input signals. Step, ramp, and sinusoidal responses of an open loop control system.

PID Controller Module
Understand the combined effects of proportional, integral and derivative controllers. Perform PID tuning and observe the plants response for different compensation gain.

Application Module
Study the feedback control using an electronic controller (rotary encoder feedback) and the motor speed control using PWM (pulse width modulation). Observe the effect of the PID controller on the motor speed with the application of physical disturbance and load over the motor.

BNC Connectors
Increases the accuracy of the signals sent with 50ohm BNC cable.

Tool Case
Rugged, light weight tool case designed and reinforced with aluminum frame to provide protection of the modules.

ATX Power Supply
Noiseless power supply With 12cm silent cooling fan, Over-voltage and short-circuit protection to ensure the system stability.

Comprehensive Manual
Student and Teacher manual is included with some detail about the overall circuit and sample questions with answers.