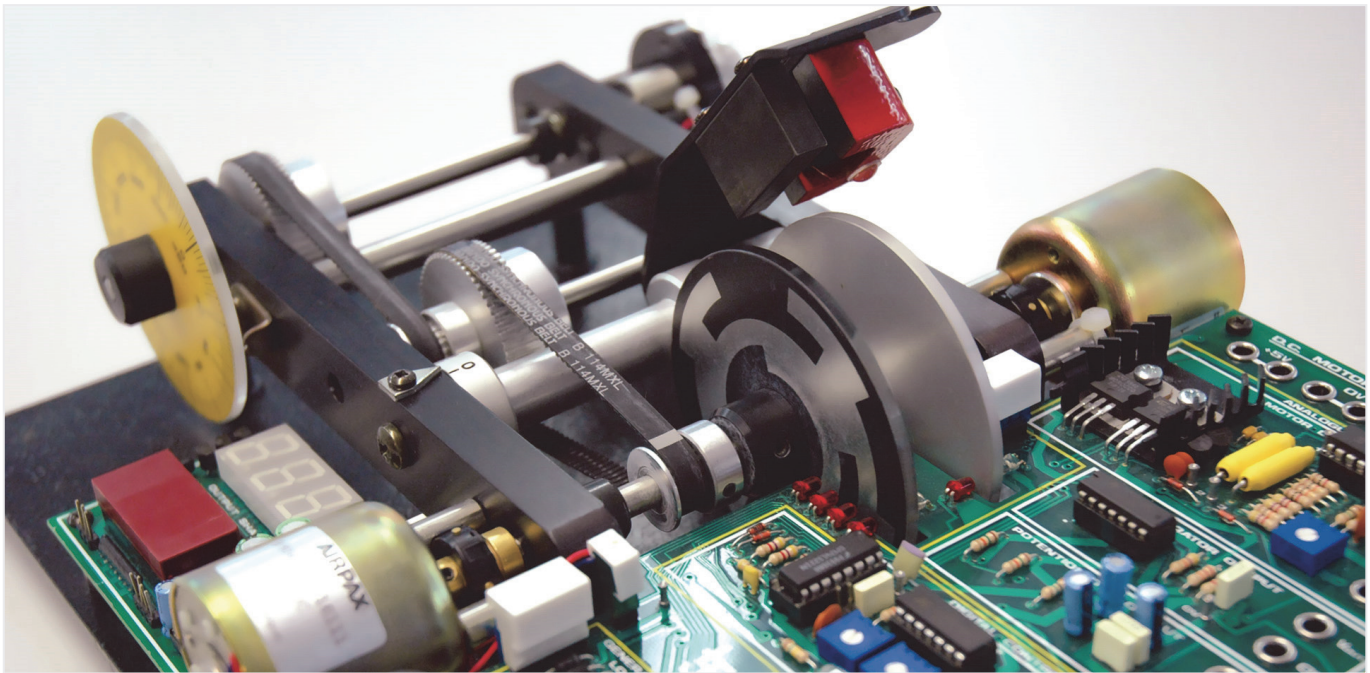


Product Information Sheet

D.C. Motor Control Module



The 207-15 DC motor control trainer has been designed to allow the user to perform numerous control experiments using either an analog or a digital controller.

Drive of the motor system can be achieved by either using voltage input directly into the analog drive amplifier or by outputting a pulse width modulated waveform from a computer interface to the PWM demodulation circuitry.

System feedback is available in both analog and digital form. Analog feedback is provided by a tachogenerator and a continuous rotation potentiometer. Digital feedback is generated by a Gray coded disc and a slotted disc. A digital tachometer display provides a constant read out of shaft speed, using data from the Gray coded disc.

An eddy current braking system is fitted to the primary drive shaft, providing the user with three selectable loadings - off, half load, and full load. The final drive shaft from the DC motor is geared down at 9:1. A protractor disc is fitted on the final drive shaft, giving a visible indication of its position.

Items Included:

- Trainer
- Technical User Manual

Other Items Required:

- 207-02 Virtual Control Laboratory
- 207-03 Command Potentiometer
- 207-04 PID Controller Module
- 207-05 4mm Connection Leads
- 207-40 Power Supply
- Multimeter

And either,

- Dual Trace Oscilloscope
- Function Generator

Or,

- Windows PC
- 207-02 Virtual Control Laboratory

General Information:

Weight: Approx 3 kg
Dimensions: 305 x 100 x 235 mm (W, H, D)
Supply Voltage: $\pm 5V$ and $\pm 12V$ DC
Packed Volume: 0.016 m³
Packed Weight: 3.31 kg

Order Code: 207-15

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For more information visit www.ljcreate.com