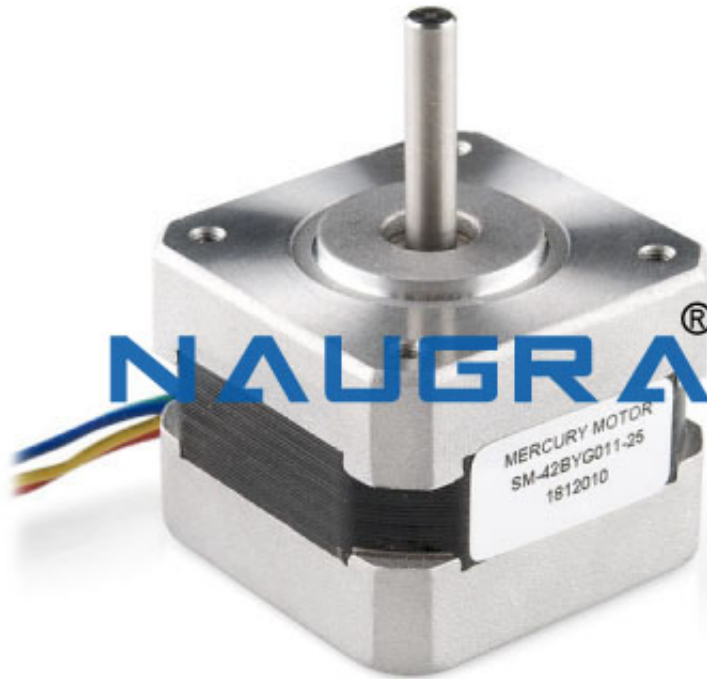


Product Name :
Interactive Stepper Motors Kit**Product Code :**
NEE -18-06-18-0146**Description :**

Interactive Stepper Motors Kit

Technical Specification :

Minimum Technical Specifications Required (like or better than):

- Experiment Module with 2-phase stepper motor, 200 steps per revolution and Incremental disc
- Driver circuit with 6 control inputs and power amplifier, integrated current regulation, optional switching to resistor current limiting
- Overload and status display via LEDs
- Interactive Software

The Kit Should Cover the Following Training Contents

- Introduction to customary applications of stepper motors

- Introduction to the design and function of stepper motors: Permanent-magnet stepper motors, reluctance and hybrid stepper motors

Identifying the advantages and disadvantages of various stepper motors • Introduction to the various principles for controlling stepper motors (unipolar and bipolar)

- Introduction to full-step and half-step operating modes
- Experimental determination of step angle, maximum operating frequency and maximum start frequency
- Investigation by measurement of control signals in half-step and full-step mode
- Analysis of control signals when rotation is reversed
- Introduction to various methods of current regulation for stepper motors
- Experimental determination of the current regulation in use on the basis of control signals

Writing a program for positioning the stepper motor using relative or absolute positioning

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