

PICAXE CLASSROOM MODELS

ROBUST CLASSROOM SYSTEM & CONTROL MODELS!

The PICAXE system is widely used for teaching students how PIC microcontrollers can be used to provide embedded systems control within a large range of consumer products.

To assist classroom teaching of control, a number of PICAXE models are available. Each model contains a controller board fitted with the PICAXE microcontroller. The student can then develop their own simple BASIC or flowchart program using the free PICAXE 'Programming Editor' software to control the model. (Software and manuals are available for free download from www.picaxe.co.uk).

As each model contains it's own PICAXE microcontroller, each model can be used by itself without the need for any other control interface. Simply develop the program, download the program via the serial cable, and watch the model come to life!

PICAXE Micro-Robot - New for 2003!

The micro-robot is a new miniature robotic module, housing two gearboxes and the batteries within a custom moulded plastic case. The PICAXE-18 microcontroller on the control interface can be programmed 'on-board' by simply connecting the AXE026 download cable into the socket provided. Various 'add-on' modules for the micro-robot are also separately available (modules can be used simultaneously if desired). These include line follower, infra-red control and ultrasonic range finding options. Naturally students can also build their own sensors to produce their own custom robot!



Micro-robot fitted with line follower kit

PICAXE MICRO-ROBOT

The PICAXE micro-robot starter pack contains the micro-robot chassis/gearbox unit, pre-assembled controller board, bumper switches, download cable and PICAXE CDROM. Line follower, infra-red and ultrasonic range finder upgrade kits are also available separately. Requires 4x AA batteries (part BAT002).



PICAXE Micro Robot Kit: AXE120S
Line Follower Kit: AXE121
Ultrasonic Range Finder: SRF004

PICAXE BUGGY

The buggy is a mobile robot controlled by an on-board PICAXE-18 microcontroller. The buggy has micro-switch sensors, LED eyes, a piezo sounder and worm drive gearboxes using high quality solar motors. Supplied in kit form with download cable. Requires 4xAA batteries (BAT002). Infra-red upgrade kit also available.



PICAXE Buggy V5 MOD001
Infra-red Upgrade: AXE040

ROBOT ARM

The robot arm model is a 5 axis DC motor controlled robotic arm connected to a PICAXE-28 control interface. The DC motors are visible through the clear plastic case of the arm. Supplied in kit form (control interface is pre-soldered). Also requires a 9 way download cable and 6V power supply.



Robot Arm Model: MOD010
Serial Cable: CAB010
6V DC Power Supply: PWR006

WASHING MACHINE

The robust washing machine model is controlled by an internal PICAXE-18 microcontroller and has an internal 'drum' that can be rotated in either direction at variable speeds. The door contains both a micro-switch sensor and solenoid bolt to mimic real-life. The washing machine is supplied in self-assembly kit form and also requires a 9 way download cable and 9V power supply.



Washing Machine Model: MOD002
Serial Cable: CAB010
9V DC Power Supply: PWR009

BANK SAFE

The bank safe model has a 'keypad' style panel for entry of 'secret' pin numbers, programmed by the students in their BASIC program for the internal PICAXE-18 microcontroller. A solenoid bolt and siren add to the variety of tasks that can be completed with this project. The bank safe is supplied in self-assembly kit form and also requires a 9 way download cable and 9V power supply.



Bank Safe Model: MOD003
Serial Cable: CAB010
9V DC Power Supply: PWR009

BUFFER BOX ADAPTER

The PICAXE buffer box adapter allows an old BBC or Acorn 'buffer box' to be used as a PICAXE development system. The adapter contains a PICAXE-28 microcontroller, and connects between the computer and the 25D connector on the buffer box, so the computer 'thinks' it is using the PICAXE system. Supplied with all cables, but requires a 9V power supply. *Buffer box not included!*



Buffer Box Adapter: AXE060
9V DC Power Supply: PWR009