

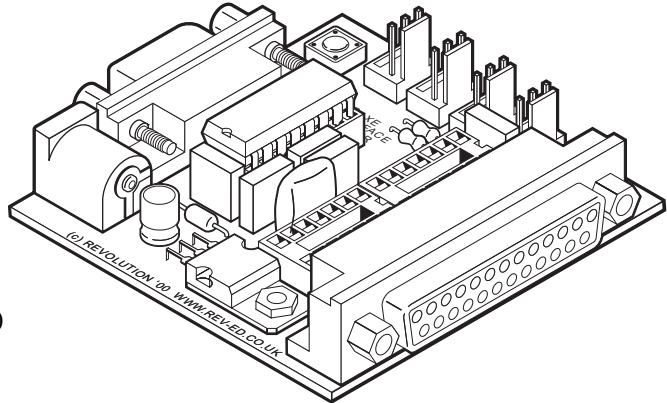
PICAXE BUFFER BOX INTERFACE

Important!

PLEASE MAKE SURE YOU ARE RUNNING THE LATEST VERSION OF THE PROGRAMMING EDITOR software (v2.0.7 or greater, available by free download from www.rev-ed.co.uk). Earlier versions of the Stamp Editor or Programming Editor software will not work correctly with this new interface.

Contents:

- PICAXE Buffer Box Interface
- 4 analogue connector headers
- 1 9DF-9DM cable
- 1 25DF-25DM cable
- self adhesive feet



Also required:

- 9V DC power supply (e.g. part number PWR-009)

Introduction:

This interface is designed to allow schools to make use of old BBC/Acorn style buffer boxes for prototyping systems with the modern PIC microcontroller based Stamp/PICAXE systems. Students can first develop programs using the buffer box interface, and then later develop their own electronic circuits using just the PICAXE chip.

The interface supports any 'parallel' style interface box (buffer box) that has a 25 way D cable connector. This includes Deltronics 'Control It' and re-badged versions of this interface (e.g. Commotion or Data Harvest variations). It does not support 'serial' interfaces.

Setup:

1. Connect the 9 and 25 way cables to the PICAXE buffer box adapter.
2. Connect the other end of the 25 way cable to the buffer box.
3. Connect the other end of the 9 way cable to the computers serial port.
4. Connect a 9V power supply (part PWR-009) to the adapter.
5. Connect the normal power lead to the buffer box.
6. Install the Programming Editor software (if not already installed). If required the software can be downloaded free of charge from the website at www.rev-ed.co.uk
7. Run the Programming Editor software.
8. Ensure the 'PICAXE-28' mode is selected (View>Options>Mode tab).
9. Ensure the correct serial port is selected (View>Options>Serial Port tab).
10. Type in a program and then select PICAXE>Run. The program should then download and run.

Language Compatibility:

The adapter uses the PICAXE-28 variation of the BASIC language. For full details see the help files provided within the Help menu of the software.

Serial Port:

The correct serial port (normally COM1 or COM2) must be selected from the View>Options>Serial Port menu item within the Programming Editor software. Older computers with a 25 pin serial port instead of the more common 9 pin serial port will also require the additional 9-25 pin adapter, part ADA-010.

Analogue Sensors:

If desired the four analogue sensor connectors can be soldered to the adapter to provide an additional four sensors that can be utilised via the BASIC “readadc” command.

When soldering these connectors in place the plastic latch of the connector must be orientated towards the right (towards the large 25 way D connector).

For further details about using analogue sensors please see the help files. The analogue sensor connection on the interface are compatible with the analogue sensor connections on the analogue calibration board (part BAS-805).