

Handheld Diagnostics and Testing Interface, is designed as an aid in test and development of Animatics SmartMotor™ applications. The SmartBox™ is small and compact in size but it offers big returns in convenience and time savings. Its portability and simple operation make it ideal for use at remote locations to run SmartMotor's functions and for onsite testing.

The SmartBox Hardware consists of:

- Two-Color LED connected to Port C Output can be programmed for 3 states: OFF, ON (Green), or ON (Red)
- Three Position Toggle Switch (Go)-Off-(Sel.) spring return to center
- Analog Input Potentiometer Connected to Port D
- External Encoder Input w/1000 line encoder
- 4 Red LEDs, in two sets wired reverse parallel to Ports E and F to allow for any or all to be turned on or off.
- Cable with 15 pin D-sub I/O connector
- Power Input Jack on side (2.1x5mm)



Sample SmartMotor™ program available:

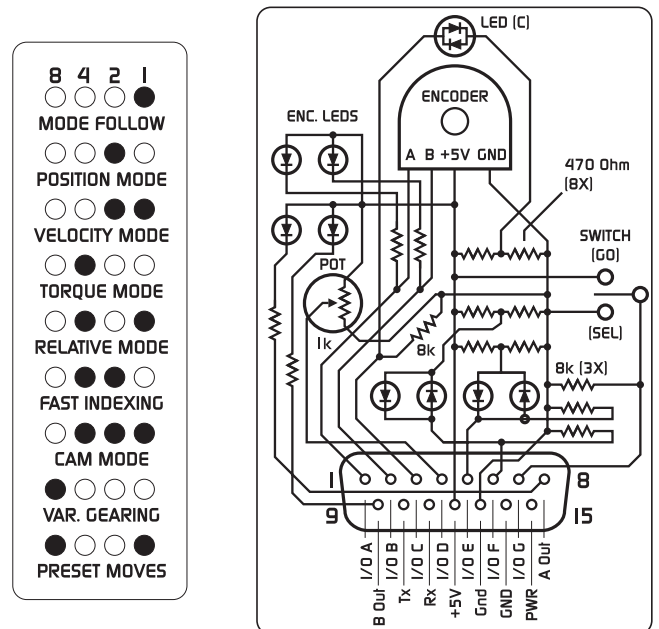
Select from a variety of pre-programmed modes using the Selector switch w/LED indication of Mode corresponding to the label on the side of the unit.

- This program allows simulation of the following:
 - Mode Follow at 1:1 counts v following Encoder Knob
 - Position Mode (Adjustable absolute commanded position)
 - Velocity Mode (Continuously variable, bi-directional)
 - Torque Mode (Continuously variable, bi-directional)
 - Relative Mode (Adjustable distance)
 - Fast Indexing (Self triggered with adjustable distance and dwell)
- CAM Mode
- Variable Gearing (Continuously adjustable gear ratio)
- Preset Moves (Pre-programmed multi-move profiles)

The SmartBox can test and demonstrate the following hardware connections including:

- Analog input
- Digital I/O
- Step and direction Input
- Encoder I/O

Side and Back Cover Labels:



Note: Demonstration Program available for download at www.animatics.com.

Mode Indicator Legend and schematic are printed on the SmartBox for easy reference

PERIPHERALS