

EK-45 Equipment/Keyboard integration

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The equipment integration and keyboard device provides 8-28 V sensing for up to 4 equipment sections and supports up to 6 momentary switches for software functions. The device simply plugs into a USB-port of your computer.

The device comes with one 15-pin d-sub connector.

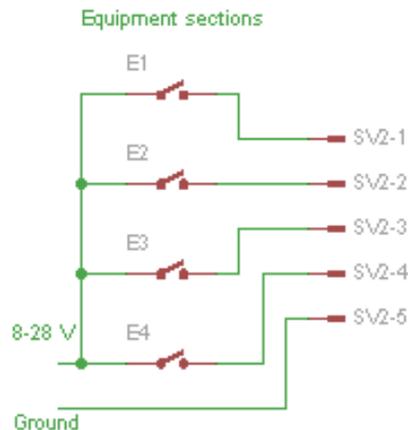
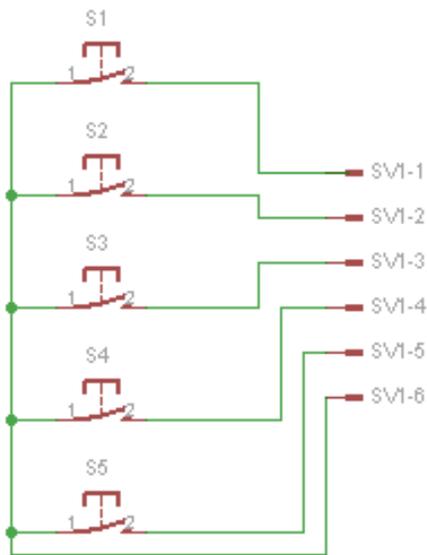
The 15-pin d-sub pins 9-13 and 15 may be connected to a switch, solenoid, pressure switch or any other source providing 8-28V for equipment/section ON/OFF status. The software uses this equipment ON/OFF information to draw the correct boom width on the map and for correct area calculations. Your integration may be as simple as a master ON/OFF switch for your equipment or can support up to 4 sections, which would require 5 (4+1 ground) wires to your equipment.

The 15-pin connectors pin 1-8 may be connected to momentary switches on your joystick or cyclic stick or any other convenient place. A typical thumb switch (not provided) has 5 positions and can be wired to the 15-pin connector. The 5 switches can then be configured in the software to execute a number of different functions. Examples: zoom-in, zoom-out, color change, marking a point etc.

Pin 1 – 5 are your connections to the momentary switches. Pin 8 is the common pin for the momentary switches.

Pins 9 – 12 are your boom sections, Pin 15 is ground for the boom sections.

Keyboard momentary switches



The keyboard diagram illustrates a typical wiring of a thumb switch. Whenever the momentary switches are closed line SV1-6 is shortened to one of the input lines and the software can pickup the signal just like it would from a keyboard.

The diagram for the equipment shows switches as an example only! This may be solenoids, pressure switches etc.. They should carry between 8 and 28V to indicate an equipment section ON or OFF status. The voltage must toggle between 0 V and 8-28V for ON and OFF.

Note: Pin 8 (common for momentary switches) and Pin 15 (aircraft ground) should NOT be connected.