

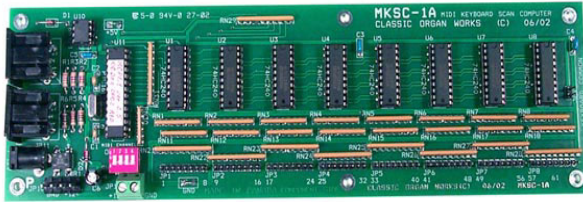
Classic Organ Works

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MKSC-1A: MIDI Keyboard Scan Computer



Description

The MKSC-1A MIDI Keyboard Scan Computer converts key-switch information from a single 'wire-per-key' (parallel) keyboard to MIDI control data. Mounted close to the key switches, the MKSC-1A is ideal for adding MIDI to an old, non-MIDI keyboard. This is particularly true in keyboards with phosphor-bronze contacts because switch 'de-bouncing' is performed by the on-board processor. The MKSC-1A has inputs supporting a 61-note keyboard. Three additional input pins are available for functions such as a stop control, to enable/disable output.

Each board transmits MIDI information on one channel. An on-board DIP-switch allows users to select one of the sixteen standard MIDI output channels. Multiple boards may be chained together to support multi-manual organs. In this case, each MKSC-1A board can be configured with a unique channel number.

A MIDI-merge feature transmits MIDI messages received on the MIDI IN port to the MIDI OUT port. Thus, other MIDI equipment may be connected to the MKSC-1A.

The MKSC-1A supports two-way power connections. A standard 9-Volt DC adaptor of either polarity or, a power supply may be used.

As mentioned above, the MKSC-1A is for parallel-wired keyboards. For keyboards wired in an 8x8 matrix, the Classic MKSC-4 or 4A should be used.

Features

- Connects keyboards to MIDI sound modules or MIDI-driven pipes.
- Converts key-switch information from a single, parallel-wired keyboard to MIDI control data.
- Inputs for up to 61 notes.
- Convenient wiring as a separate pin is used for each key switch input.
- Software 'switch de-bouncing' performed to eliminate switching errors in older organs.
- User selectable MIDI channel output on one of sixteen MIDI channels.
- MIDI-merge function allows chaining of multiple boards and MIDI devices.
- +5V switch common present however, an organ with a +10V to +15V switch common may be used.
- Uses a standard 9V DC wall adaptor of either polarity.
- Low power consumption.
- Dimensions: 10" (width) x 3" (height).

Applications

The MKSC-1A is ideal for adding MIDI to older organs with parallel-wired keyboards. Furthermore, older organ keyboards often have phosphor-bronze contacts. Due to age, these switch contacts tend to deteriorate. As a result, they bounce between 'on' and 'off' positions before settling on one position. With switch bouncing, an unclear sound is produced. This problem is eliminated with the MKSC-1A. The software has been designed with a 'de-bouncing' feature which ignores the switch events until it has settled. A clean sound is produced even in older organs with extremely poor switch contacts.

With the addition of the MKSC-1A, organ keyboards have the ability to communicate with other MIDI devices such as MIDI sound modules.