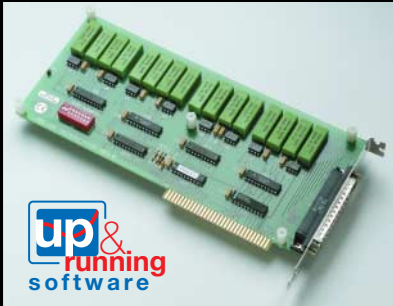


REL-16, -16/W



- 6 Form A (SPST-NO) relays
- 500mA current rating (REL-16)
- 1A current rating (REL-16/W)
- Rhodium plated contacts available (REL-16/W)
- 32-bit DriverLINX drivers plus a suite of bundled software including ExceLINX, VisualSCOPE, TestPoint, and LabVIEW drivers

Ordering Information

REL-16 16-Channel SPST Amalgam Relay Board

REL-16/W 16-Channel SPST Mercury Wetted Relay Board

APPLICATIONS

- Control switching
- Analog multiplexing
- Lighting control
- Alarm control
- Motor starter control

500mA/1A SPST Relay Output Board

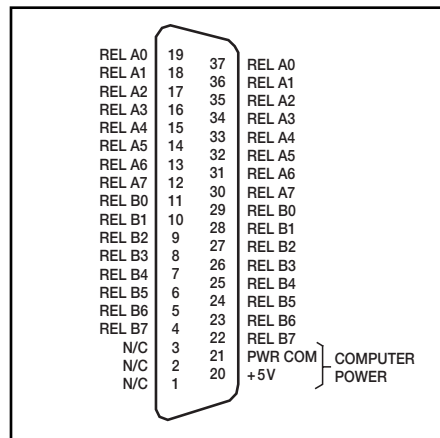
Keithley's REL-16 is an inexpensive 16-channel SPST Form A relay board for use with ISA-bus compatible computers. It is often used to control switching and analog multiplexing. The REL-16 is easily installed in any I/O slot inside the computer, while I/O connections are made through a 37-pin D connector at the rear of the computer.

The 16 electromechanical relays are available in two types. The REL-16 includes dry contact relays which are rated to 0.5A (resistive). The REL-16/W contains mercury wetted relays with a lower contact resistance and up to a 1A rating (resistive). Note that the REL-16 relays are insensitive to position, and can be mounted in any orientation, while the mercury wetted relays in the REL-16/W require that the board be mounted within 30° of vertical.

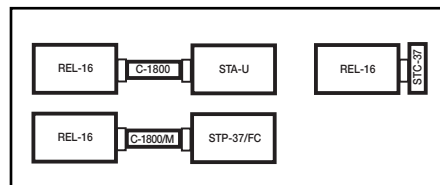
The REL-16 is configured as two independent 8-bit ports (A and B). Controlling the relays is as simple as writing an 8-bit word to either of the ports. A power-up reset has been implemented to insure that all relays stay in their power-off (open) state when power is first applied to the host computer. The relay output ports can be read back to determine the current state of the relays. This is a useful feature if you want to switch one relay without disturbing the others. +5V power is brought out from the computer and can be used to power external devices.

Connector Pin Assignments

All I/O connections to the REL-16 are made through a standard male 37-pin D connector. Connections to the board may be made through a mating D connector (part number SFC-37).



Configuration Guide



ACCESSORIES AVAILABLE

C1800	REL-16 to STA-U Cable
C1800/M	REL-16 to STP-37/FC Cable
MS-REL-16	Upgrade to latest version of DriverLINX software and hardware manuals for REL-16
SFC-37	Mating 37-Pin Connector
STA-U	Universal Screw Terminal Accessory
STC-37	Direct Screw Terminal Connector
STP-37/FC	Screw Terminal Panel with female D37 connector
TESTPOINT	TestPoint Software Package

Specifications

RELAY OUTPUTS

QUANTITY: 16 Form A (SPST-NO).
OPERATION TIME: 2.0ms max.
ISOLATION RESISTANCE: 10⁹Ω @ 100VDC.
VOLTAGE HOLDOFF COIL-CONTACT: 1500VDC, 25°C, 40% relative humidity.

CONTACT RATINGS REL-16/W

CONTACT TYPE: Mercury wetted (position sensitive, board must be mounted ±30 degrees of vertical).
CONTACT RATING: 50W max. at 1A or 125Vrms (resistive).
CONTACT RESISTANCE: 50mΩ max, initial.
CONTACT LIFE: 10⁷ operations at rated load.

CONTACT RATINGS REL-16

CONTACT TYPE: Dry.
CONTACT RATING: 10W max. at 0.5A or 125V rms (resistive).
CONTACT RESISTANCE: 100mΩ max, initial.
CONTACT LIFE: 10⁷ operations at rated load.

ENVIRONMENTAL

OPERATING TEMP: 0° to 60°C.
STORAGE TEMP: -40° to 100°C.
HUMIDITY: 0 to 90%, non-condensing.
MOUNTING: The REL-16/W must be mounted within 30° of vertical. The REL-16 can be mounted at any angle.
EMC: Conforms to European Union Directive 89/336/EEC.
SAFETY: IEC Installation Category I. (Voltage source must be isolated from the mains by a transformer).
DIMENSIONS: 9.0in L × 4.25in × 0.85in D (22.9cm × 10.8cm × 2.2cm).

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A GREATER MEASURE OF CONFIDENCE

Inexpensive 16-channel SPST Form A relay board

PCI/ISA/PCMCIA