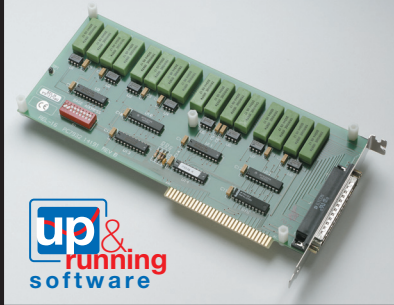


REL-16



- 6 Form A (SPST-NO) relays
- 500mA current rating
- 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

APPLICATIONS

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

1.888.KEITHLEY (U.S. only)

www.keithley.com

500mA 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 REL-16 includes dry contact relays which are rated to 0.5A (resistive). Note that the REL-16 relays are insensitive to position, and can be mounted in any orientation.

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.

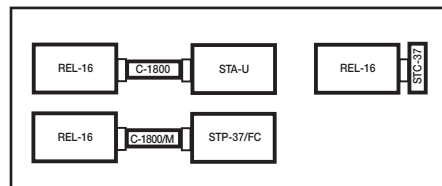
Connector Pin Assignments

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).

REL A0	19	37	REL A0
REL A1	18	36	REL A1
REL A2	17	35	REL A2
REL A3	16	34	REL A3
REL A4	15	33	REL A4
REL A5	14	32	REL A5
REL A6	13	31	REL A6
REL A7	12	30	REL A7
REL B0	11	29	REL B0
REL B1	10	28	REL B1
REL B2	9	27	REL B2
REL B3	8	26	REL B3
REL B4	7	25	REL B4
REL B5	6	24	REL B5
REL B6	5	23	REL B6
REL B7	4	22	REL B7
N/C	3	21	PWR COM
N/C	2	20	+5V
N/C	1	20	+5V

} COMPUTER POWER

Configuration Guide



Specifications

RELAY OUTPUTS

QUANTITY: 16 Form A (SPST-NO).
 OPERATION TIME: 2.0ms max.
 ISOLATION RESISTANCE: $10^9\Omega$ @ 100VDC.
 VOLTAGE HOLDOFF COIL-CONTACT: 1500VDC, 25°C, 40% relative humidity.

CONTACT RATINGS REL-16

CONTACT TYPE: Dry.
 CONTACT RATING: 10W max. at 0.5A or 125V rms (resistive).
 CONTACT RESISTANCE: 100m Ω max, initial.
 CONTACT LIFE: 10^7 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 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 \times 4.25in \times 0.85in D (22.9cm \times 10.8cm \times 2.2cm).

ACCESSORIES AVAILABLE

C1800	REL-16 to STA-U Cable
C1800/M	REL-16 to STP-37/FC Cable
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

KEITHLEY