

MEM-32

32-Channel Electromechanical Relay Board For the METRABUS

FEATURES

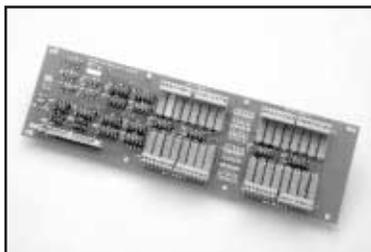
- 32 SPST Mercury Wetted contacts (MEM-32/W)
- 32 SPST dry contacts (MEM-32/A)
- Mercury wetted contacts rated to 2 Amps at 50 Watts (resistive)
- Dry contacts rated at 0.5 Amps at 10 Watts (resistive)
- Up to 512 outputs per PC expansion slot
- Very useful for switching in high- or low-current applications
- Allows very dense packaging in control applications
- Very low cost per channel
- Detachable screw terminals greatly reduce field wiring and replacement time

APPLICATIONS

- Control switching
- Alarm activation
- Analog multiplexing
- Lighting control
- Motor starter control
- Digital output interfaces

Functional Description

The MEM-32/W and MEM-32/A are 32-channel SPST relay boards for the METRABUS system. The MEM-32/W has Mercury wetted contacts which are rated at 2 Amps. Due to its wetted contact configuration, the MEM-32/W must be mounted within ± 30 degrees of vertical. The MEM-32/A uses dry relays that have less current capability (0.5 Amp max.) but can be mounted without regard to position.



The MEM-32 uses 4 consecutive addresses on the METRABUS. This allows up to 16 MEM-32 boards to be controlled by a single METRABUS driver board providing control of 512 independent relays. The MEM-32 is divided into four 8-bit ports. Writing to a port loads data into the output latches and to the relays. Reading data back from a port returns the data currently on the output latch. This feature allows the user to verify that data has been received correctly. All relays on the MEM-32 are set in their off state at power-up.

Detachable screw terminals on the MEM-32 offer easy connection to user field wiring, and accept AWG wire sizes 12-22. The MEM-32 can be mounted in standard 19-inch racks (such as the RMT-02) or in standard NEMA enclosures.

SPECIFICATIONS

METRABUS Address Space

4 Consecutive addresses.

POWER REQUIREMENTS

+5V: 510mA (+22mA/activated relay).
±15V: not used.

PHYSICAL

DIMENSIONS: 16in L x 4.75in H (40.63cm H x 12.05cm L).
OPERATING TEMP: 0 to 70°C.
STORAGE TEMP: -20 to 100°C.
HUMIDITY: 0 to 90% non-condensing.

MOUNTING

MEM-32/W must be mounted within $\pm 30^\circ$ of vertical.

RELAYS

QUANTITY AND TYPE: 32 SPST relays.
OPERATION TIME: 2.0ms max.

CONTACT RATINGS

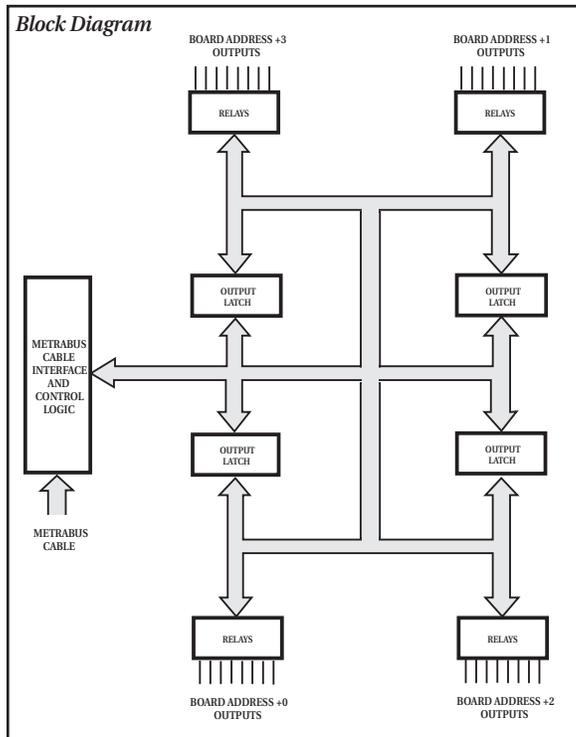
MEM-32/W

CONTACT TYPE: Mercury wetted (position sensitive, board must be mounted $\pm 30^\circ$ of vertical).
CONTACT RATING: 50 Watts at 2 Amps or 150VDC (resistive), installation category I.
CONTACT LIFE: 10^7 operations at rated load.

MEM-32/A

CONTACT TYPE: Dry.
CONTACT RATING: 10 watts at 0.5 Amp or 150VDC (resistive), installation category I.
CONTACT RESISTANCE: 100m Ω max., initial.
CONTACT LIFE: 10^7 operations at rated load.

Block Diagram



QUESTIONS?

1-800-552-1115 (U.S. only)

Call toll free for technical assistance, product support or ordering information, or visit our website at www.keithley.com.

ORDER DESCRIPTION

ORDER	DESCRIPTION
MEM-32/W	METRABUS 32-Channel Relay Board with Mercury Wetted Contacts
MEM-32/A	METRABUS 32-Channel Relay Board