

# MII-32

## 32-Point Isolated Digital Input Board For the METRABUS

### FEATURES

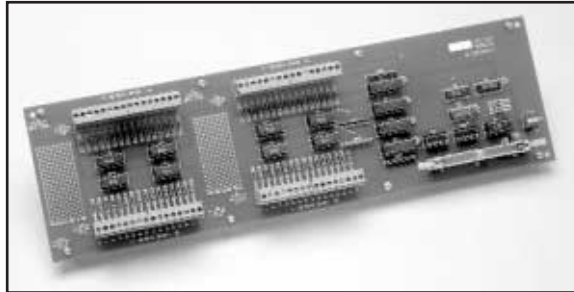
- 32 logic level inputs
- 500 volts isolation
- Up to 512 input points per PC expansion slot
- Easy to program
- Detachable screw terminals greatly reduces field wiring and replacement time

### APPLICATIONS

- Limit switch monitoring
- Relay contact closure monitoring
- BCD output interface
- Interface to user-designed circuitry
- Read external A/Ds

### Functional Description

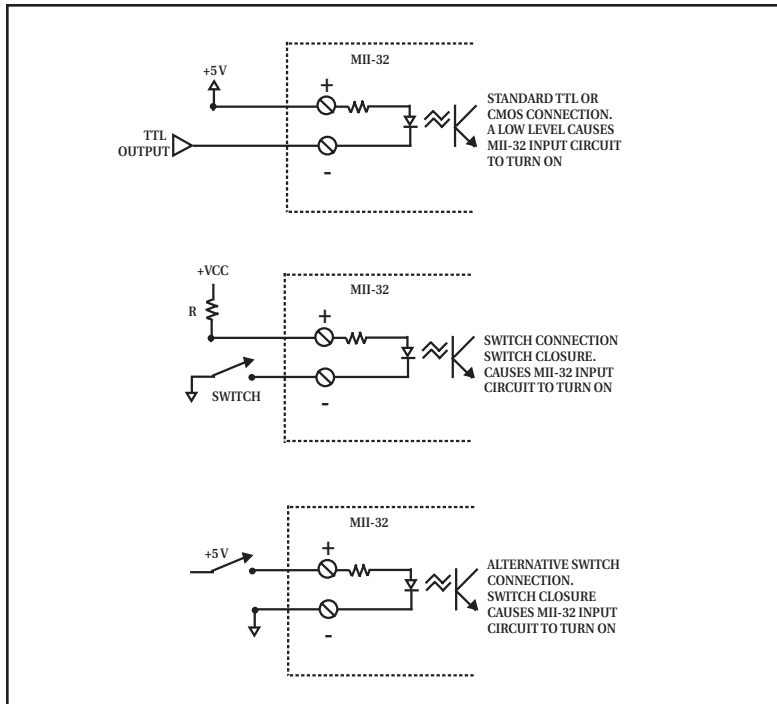
The MII-32 is a 32 point, logic level input board for the METRABUS system. The board will accept TTL, buffered CMOS, or any 0 to 5 volt digital input. Higher input voltages can be monitored by changing a resistor on the board. With the addition of a pull-up or pull-down resistor all types of contact closures may be monitored.



The MII-32 uses 4 consecutive addresses on the METRABUS. This allows up to 16 MII-32 boards (512 input points) to be connected to a single METRABUS driver board. The board is divided into four 8-bit ports. Reading a port returns the digital byte currently on the inputs.

### Configuration Diagrams

To assure proper operation of the MII-32 a few simple input connection conventions should be followed:



### SPECIFICATIONS

#### METRABUS ADDRESS SPACE

4 Consecutive addresses

#### POWER REQUIREMENTS

+5V: 220mA typ, 300mA max  
±15V: not used

#### PHYSICAL

DIMENSIONS: 15in L x 4.74in W (40.63cm L x 12.05cm W)  
OPERATING TEMP: 0 to 70°C  
STORAGE TEMP: -20 to 100°C  
HUMIDITY: 0 to 90% non-condensing

#### INPUTS

NUMBER OF INPUTS: 32 (in four 8-bit bytes)  
ISOLATION: 500VDC  
INPUT HIGH CURRENT: 3.2mA min  
INPUT HIGH VOLTAGE: 2.2V min  
INPUT LOW CURRENT: 0.25mA max  
INPUT LOW VOLTAGE: 1.3V max  
MAXIMUM INPUT VOLTAGE: 11V max (with standard input resistors)  
MAXIMUM INPUT VOLTAGE: 42V max (with user installed resistors)

#### ORDER DESCRIPTION

MII-32 METRABUS 32-Point Isolated Digital Input Board

### 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](http://www.keithley.com).