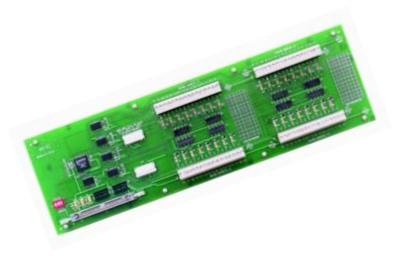
MII-32

32-Bit Isolated Digital Input Board for the MetraBus



Functional Description

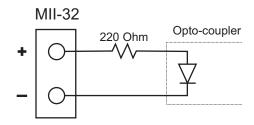
The MII-32 is a 32-channel isolated digital input board. The board is compatible with TTL and buffered CMOS logic families. The inputs may also be used to monitor contacts/switch systems with ON voltages up to 11 Vdc. Provisions are included for monitoring higher input voltages using customer-modifiable resistors. Using this board, the MetraBus system can read up to 512 digital input channels from a single computer expansion slot.

The MII-32 board uses four consecutive addresses on the MetraBus. This allows a single MetraBus driver board to monitor up to 16 MEM-32 boards or up to 512 inputs. The MII-32 board is divided into four, 8-bit ports.

Common applications of the MII-32 include monitoring of relay contact status, alarm status, limit switches, as well as acquiring data from a wide variety of electrical equipment with logic level outputs.

Detachable screw terminals on the MII-32 simplify field wiring, and accept standard 12-22 AWG wire sizes. The MII-32 is compatible with all MetraBus mounting and installation chassis and hardware, making it easy to install the boards in NEMA chassis, in 19-inch racks, on DIN rails, or on any flat surface.

MetraBus programming is very easy. You may write direct register I/O programs, take advantage of the Universal Library, or use SoftWIRE, DAS Wizard, or any of a wide variety of compatible software packages.



MII-32 Input Configuration

Features

- 32 Logic level digital inputs
- 500 Vac isolation
- Detachable screw terminals simplify field wiring
- Low Cost
- Monitors up to 512 inputs per PC slot
- On-board locations for adding custom signal conditioning
- Can be installed up to 100 feet from host computer

Specifications

Digital Inputs

Number of input channels
Input configuration
Input high threshold voltage
Input low threshold voltage

Input low threshold voltage
Input high threshold current
Input low threshold current
Input voltage
Reverse voltage
Forward current
Forward voltage
Surge current
Input low threshold current
O.25 mA max.
11 Vdc max.
60 mA max.
1.25 V typ.
2.5 A max.

Isolation resistance 10^{12} ohms (V = 500V, Ta = 25°C)

Isolation voltage 500 Vdc typ.

Connectors

Module I/O connector type Detachable screw terminal

Voltage rating 300 V max. Wire sizes 12-22 AWG

Power Consumption

+5 V 220 mA typical, 300 mA max.

±15V not used

Environmental

Operating temperature: $0 \text{ to } 70 \,^{\circ}\text{C}$ Storage temperature: $-40 \text{ to } 100 \,^{\circ}\text{C}$

Humidity 0 to 90% noncondensing

Physical

Size: 16 x 4.8 inches (40.64 x 12.192 cm)

Ordering Guide

MII-32 32-Bit isolated digital input board for the MetraBus