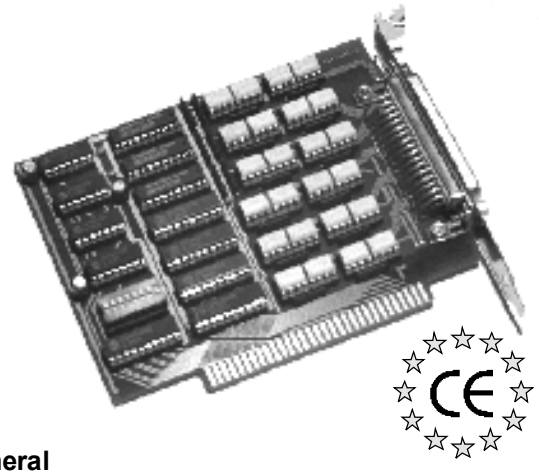

Isolated 24 Digital Input, 24 Digital Output Board Model IO 1188

Highlights

- 24 Isolated Digital Input Channels
- 24 Isolated Digital Output Channels
- Interface To SPS
- Meets EMV-Specifications
- Easy Programmable

General

The IO 1188 is a 24 isolated digital input and 24 isolated digital output interface board designed for control and sensing applications. This board can easily be installed in any ISA-Bus based computer slot.

Main feature of this board is the input/output-to-system isolation, eliminating trouble some spikes and protecting the data acquisition system from damage caused by external high voltages.

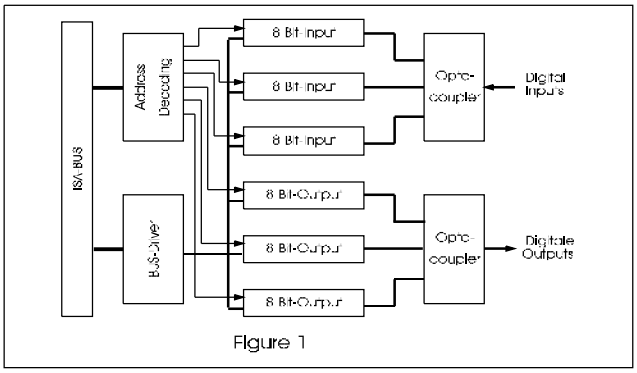

Figure 1

The block diagram of the board model IO 1188 is shown in figure 1.

The board IO 1188 provides 24 optically isolated inputs and outputs. The logic level for the inputs is 0 / 24V. The digital outputs are high side switches for 24 V / 25 mA. By this way any SPS can be connected directly to the IO 1188 board inputs respective outputs.

Programming is very simple. No initialization of the board must be done. A power-on-reset provides for a defined state when the host is switched on. Input and output state is controlled by simple I/O commands.

The BASE address is switch selectable and can be located anywhere up to $3FE_h$. Only 3 I/O addresses are used. This allows installing multiple boards in the same host at the same time.

For input and output connections there is a DB50-connector. 50 pin cables of different length and connection boards for 50 pin D-sub connector pin to pin screw terminal are deliverable.

Inputs/Outputs

The circuit diagram of inputs and outputs is shown in figure 2. Inputs have a common ground pin “34". The common pin for the outputs is pin ”35". External supply voltage of p. e. 24 VDC must be connected to this pin.

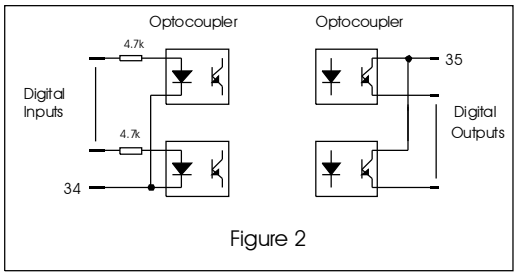

Figure 2

Software

A disk is included with programming examples for Basic, Turbo Pascal, C, Visual Basic, 16 Bit DLL for Windows 3.x, and 32 Bit DLL for Windows 95.

Ordering Information

Technical Specifications	
Digital Inputs	: 24 Channels Optoisolated
Digital Input Level	: 5 to 24 V
Optional	: 12 to 24 V
Input Resistance	: 5 kΩ
Digital Outputs	: 24 Channels Optoisolated
Output Current	: max. 25 mA
Output Voltage	: max. 30 V
Isolation Voltage	: 1.5 kV
Supply Voltage	: +5 V, max. 0,2 A
Connector	: DB50-male
EMV	: EMV-conform with 89/336/EWG
Operating Temperature	: 0 - 50 °C
Storage Temperature	: - 25 to +85 °C
Dimensions	: 131 x 100 mm

IO 1188

Accessories

Cable MKS 50-1.5 (1.5m)
Cable MKS 50-3 (3 m)
Cable MKS 50-5 (5 m)
SKB 50B (Connection Board)

ERMA-Electronic GmbH - Max-Eyth-Str.8 - 78194 Immendingen - Tel: +49(0)7462/2000-0 - Fax: +49(0)7462/2000-29

Technical Subjects To Change