

**Isolated
Digital Input/Output Board
Model IO 1213**

Highlights

- Max. 48 Isolated Input/Output Channels
- Connecting Directly To SPS
- Simply Programming
- Meets EMV-Specifications

General

The IO 1213 is a ISA-Bus based isolated digital input/output board for a wide variety of digital applications. The board provide a maximum of 48 digital inputs/outputs. The logic level for the inputs is standard 24 V. The digital outputs are high side switches for max. 30 V / 100 mA. By this way any SPS can be connected directly to the IO 1213 board inputs respective outputs.

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 voltages.

The circuit diagram of inputs and outputs is shown in figure 2. Inputs have common ground. The outputs either switch to ground or to supply voltage.

Software

A disk is included with programming examples for Basic, Turbo Pascal, C, Visual Basic, 16 bit DLL for Windows 3.1x and 32 bit DLL for Windows 95.

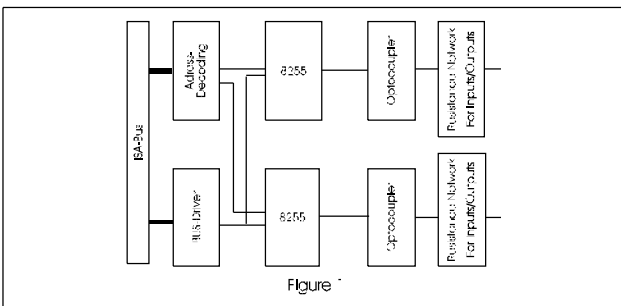


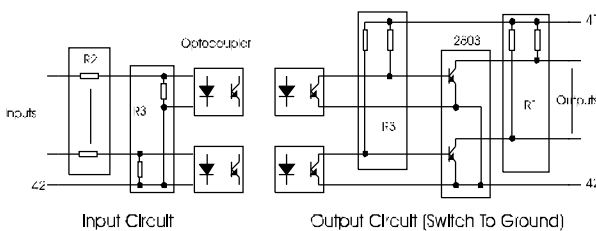
Figure 1

The block diagram of the board IO 1213 is shown in figure 1.

Addressing

The BASE address is switch selectable and can be located at the whole IO-addresspace. The board uses 7 IO-addresses. This allows installing multiple boards in the same host at the same time.

Inputs/Outputs



Technical Specifications	
Digital Inputs	: max. 48 Channels Optoisolated
Digital Input Level	: 24 V
Optional	: 5 V, 12 V, 15 V
Input Resistance	: 5 kΩ
Digital Outputs	: max. 48 Channels Optoisolated
Output Power	: max. 100 mA / 30 V
Output Voltage	: max. 30 V
Supply Voltage	: +5 V, max. 0,1 A
Connector	: DB50-male
EMV	: EMV-conform with 89/336/EWG
Operating Temperature	: 0 - 50 °C
Storage Temperature	: - 25 to +85 °C
Dimensions	: 190 x 102 mm

Ordering Information

IO 1213/XX/X/XX

- Digital Input Level:
 - 00 = Without Digital Inputs
 - 05 = 5 V
 - 12 = 12 V
 - 15 = 15 V
 - 24 = 24 V
- Digital Outputs:
 - 0 = Without Digital Outputs
 - P = Switch To Supply Voltage
 - M = Switch To Ground
- Configuration Of The Board:
 - 01 = 48 Outputs
 - 02 = 40 Outputs, 8 Inputs
 - 03 = 32 Outputs, 16 Inputs
 - 04 = 24 Outputs, 24 Inputs
 - 05 = 16 Outputs, 32 Inputs
 - 06 = 8 Outputs, 40 Inputs
 - 07 = 48 Inputs