phase-out model
not recommendable for new design
software- and connection compatible with DA 1326

Isolated Analoge Output Board DA 1250

Highlights

- 8 Optical Isolated Analog Output Channels
- Voltage Output
- 12 Bit Resolution
- Settling Time 10 us
- 4 Optical Isolated Digital Inputs
- Meets EMV-Specification

General
The model DA 1250 is a 12-bit D/A board for ISA-Bus based computers. The unit provides 8 D/A channels with voltage output signals.
The main feature of this board is the channel-to-system isolation eliminating trouble some ground loops and protecting the data acquisition system from damage caused by external high voltages.
The optical isolation can operate with up to 500 V of common-mode voltage.
The output ranges are 0-10 V, +/- 2,5 V, +/- 5 V or +/- 10 V. A power-on-reset provides for a defined state when the host is switched on.

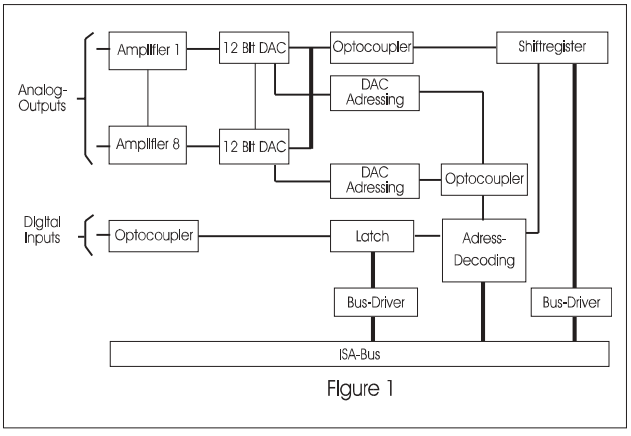

Figure 1

The block diagram of the board DA 1250 is shown in figure 1.
Besides the 8 analog outputs there are 4 isolated digital inputs available. These inputs can be used for controlling.

Addressing
The BASE address is switch selectable and can be located anywhere up to $3FE_h$. Only 2 I/O addresses are used. This allows installing multiple boards in the same host at the same time.
Programming is very simple. No initialization of the board is needed. Channel selection and output voltage programming is done by only two 8-bit-words.

Analog Output Ranges.
The Output range of each channel may be jumper selectable between 0-10 V, +/- 2,5 V, +/- 5 V or +/- 10 V. The Resolution is 12 bit, settling time 10 µs and linearity typ. 0.05%. Input coding is straight binary.

Digital Inputs
In addition to the analog outputs there are 4 digital inputs available. The digital inputs are isolated too. The inputs can be controlled by contacts or open collector of transistors.

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.

Technical Specifications

Output Channels	: 8 Optoisolated
Voltage Isolation	: 500 V
Resolution	: 12 Bit, 10 µs
Accuracy	: +/-1 Bit
Output Range	
Standard	: 0-10 V,+/-2,5 V, 5 V, 10 V
Output Current	: max. 5 mA
Optional Ranges	: Customer Defined
Supply Voltage	: +5 V, max. 0,25 A
Connector	: DB25-male
EMV	: EMV-conform with 89/336/EWG
Operating Temperature	: 0 - 50 °C
Storage Temperature	: - 25 to +85 °C
Dimensions	: 191 x 100 mm

Ordering Information
DA 1250