GAB H844
grifo® Analog BLOCK Housing, 8 analog in, 4 opto in, 4 Relays out
GMM AM1284
grifo® Mini Module AT mega 1284P

TECHNICAL MANUAL

Via dell' Artigiano, 8/6
40016 San Giorgio di Piano
(Bologna) ITALY
E-mail: grifo@grifo.it
http://www.grifo.it http://www.grifo.com
Tel. +39 051 892.052 (a.r.) FAX: +39 051 893.661

GAB H844+GMM AM1284 Rel. 5.00 Edition 21 July 2011

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Couple between interface board of Analog Block GAB H844 series and Mini Modules with AVR core with 40 pins GMM AMM1284, able to manage application that involve both Analog and Digital signals.
IMPORTANT

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For specific informations on the components mounted on the card, please refer to the Data Book of the builder or second sources.

SYMBOLS DESCRIPTION

In the manual could appear the following symbols:

- Attention: Generic danger
- Attention: High voltage
- Attention: ESD sensitive device

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COUPLE RESOURCES

The **GAB H844 + GMM AM1284** couple has the following resources:

- **Max. value voltage of A/D converter (Vmv):** 2.5 V or 5.0 V
- **Conditioned analog inputs (0÷20mA, 4÷20 mA, 0÷Vmv, 0÷4*Vmv):** 8
- **Direct analog inputs (0÷Vmv):** 4
- **Relays output:** 4
- **Otpocoupled digital inputs:** 4
- **Buffered TTL digital inputs:** 4
- **TTL multifuncion signals:** 6
- **Asynchronous serial line RS 232:** YES
- **Asynchronous serial line TTL:** YES
- **Asynchronous serial line RS 422:** YES
- **Asynchronous serial line RS 485:** YES
- **Asynchronous serial line Current Loop:** YES
- **Synchronous serial line I2C BUS:** YES, hardware
- **CAN interface:** NO
- **USB interface:** NO
- **Real Time Clock:** YES

It is importatn to note that the previous list shows the maximum available resources and some of these ones are not usable in the same time, as described in following figures.

COUPLE CONNECTIONS

In the following tables are reported all connections of all available signals for user of **GAB H844** respect to **GMM AM1284** Mini Module. With these connections the user can manage all available resources both in hardware and in software.

If it needed a documentation more detailed, (connection diagram, signal location on connectors, power supply, jumpers configuration, software management, etc.) please, see technical manuals of the two modules contained in the couple.

In the tables are present some abbreviation and reference:
- N.C. = Not Connected
- N.M. = Not Mounted
- *1 = to configure according to the performed connection.
Figure 3: Connection Table (3 of 5)