### WA-2 — USER'S MANUAL

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#### **Features**

- 2 isolated analog inputs
- Integrating Analog to Digital converters
- BUSMAT bus

### 1 Introduction

The WA-2 is an optically isolated two-channel integrating Analog to Digital Converter card with a BUS-MAT bus interface.

#### 1.1 New revisions

This is the revision 0.0 of this specification. The first number is the major revision number. The major revision number identifies the hardware revision. The second number is the minor revision. This number identifies the version of the documentation of for the same hardware.

Latest revision of this document is available at http://www.microster.pl/doc/wa2.

### 1.2 Copyright

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# 2 Ordering guide

The WA-2 card is available in the following versions:

Model Bus No. Inputs WA-2 BUSMAT 2

# 3 Technical specifications

Bus interface	BUSMAT
Power supply voltage	5 V ±5%
Number of inputs	2
Inputs type	DC or AC
Inputs isolation	≥ 1000 V

#### 3.1 Absolute Maximum Ratings

Parameter	Min	Max	Unit
Supply voltage	-0.5	6.0	V
Operating temperature	5	60	°C
Storage temperature	-40	85	$^{\circ}\mathrm{C}$

### 3.2 I/O connector

The WA-2 card I/O connector is presented in Figure 1.

Pin	Description
1	Input 0 — current signal
2	Input 0 — voltage signal
3	Input 0 — ADC signal
4	Input 0 — GND
5	Not connected
6	Not Connected
7	Input 1 — current signal
8	Input 1 — voltage signal
9	Input 1 — ADC signal
10	Input 1 — GND

Figure 1: WA-2 I/O connector.

### 4 Host interface

The WA-2 card is visible from host as four I/O ports on a BUSMAT bus starting at address 0x01f0.