

IN5AWd – Analog Inputs

Firmware: V4.2

1. GENERAL FEATURES:

Reading points: 5 tension inputs;

Control: Via MD BUS;

Applications: Reading equipment with voltage output 0-10V;

Installation: DIN Rail Distribution Board.

2. GENERAL SPECIFICATIONS:

Mains Voltage: 12VDC;

Consumption: 25mA @ 12VDC;

Storage Temperature: -10°C to 60°C; Operating Temperature: 10°C to 50°C;

Maximum humidity: 80% without condensation;

Specifications Inputs:

resolution:

10bits;

Protected until:

+25VDC e -25VDC;

Physical Specifications:

Dimensions: 105mm X 90mm X 70mm DIN rail mounting (6

modules); Box Plastic, self-extinguishing UL-94 V0;

Degree of Protection: IP20, for indoor use.

Directives:

- Electromagnetic Compatibility Directive / EMC Directive 2004/108/EC

3. COMPATIBILITY:

PCCWd Compatibility: V3.4;

Software Compatibility Mordomus: Mordomus Software

v2015.2 or higher;

4. SECURITY:

Before making any connections, please read these instructions carefully.

Never remove the plastic base from DIN rail.

5. CONNECTIONS:

Thickness of conductors:

Bus Circuit:

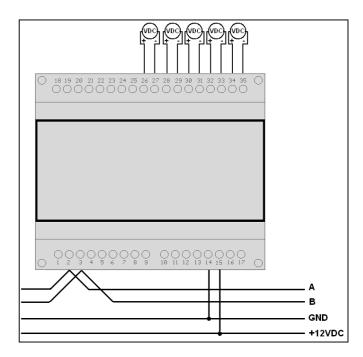
CAT6 Cable F/UTP shielded, twisted;

Power Circuit:

Mono-wire or multi-wire at least 0.75mm²;

Table of Connections:

Number	Function	Number	Function
1	GND	28	Input 4
2	MD BUS RX (A)	29	GND
3	MD BUS RX (B)	30	Input 3
14	GND	31	GND
15	+12VDC PSU	32	Input 2
16	GND	33	GND
17	+12VDC PSU	34	Input 1
26	Input 5	35	GND
27	GND		



Connect the Bus:

To connect the BUS should be used a twisted pair cable CAT6. For example: Green for A and Green/White to B. The shield should be connected to GND.

Connect the 12VDC power:

It is recommend the use of Mean-Well power supplies, DR60-12 and DR30-12.

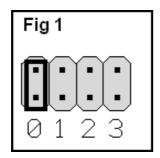


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6. ADDRESSING AND CONFIGURATION:



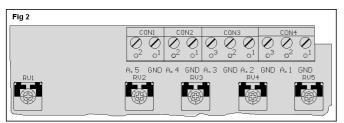
To assign the desired module to do the following:

- 1. Place the jumper on the module as shown in Fig 1;
- In Mordomus Software select Settings -> Registration Module/Addresses;
- 3. Press **RESET** button and module (red LED 2 flashes once and green LED 1 blinks).

Note that after three minutes without having assigned a new address, the module automatically returns to normal.

- At Mordomus Software will open a window that allows the module addressing, you should choose the address and when you confirm, the Green LED 1 will stop blinking;
- 5. After applying the new settings remove **Jumper 0**.

The chosen address must not be shared with another module.



The variable resistors (VR), RV1 RV5 allows to adjust the sensitivity of each input IN5AWd.

- 1. To adjust the sensitivity correctly:
- Put the maximum voltage produced by equipment connected to the input. In the case of a device with the [0 - 10V] would be 10V.
- 3. Turn the RV to minimum (counter clockwise);
- 4. Turn the RV slowly clockwise until the value displayed in the Software Mordomus corresponds to the maximum value (100% or 1023).

Refresh rate:

This configurable parameter in Software Mordomus defines the frequency of readings.

Possible values are: 1, 3, 5, 10, 30 seconds, and 1, 3, 5, 10, 30 minutes.

Necessary variation (Delta):

This configurable parameter in Software Mordomus defines the percentage of the variation necessary for a new reading is validated. Possible values are 1, 2, 3, 4, 5, 6, 10, 50%.

7. FUNCTIONING:

Led Code:

Green LED ON: Module powered;

Green LED blinking briefly: Module receiving data;

Green LED blinking continuously: Module awaiting address;

Red LED blinking: module sending data.

Reset: To perform a reset, cut power of the module 12VDC for several seconds or press the Reset.