Overview

- Datalogger with timestamp of records (RTC, Real Time Clock).
- Ethernet, USB, RS232 and RS485 communication
- Galvanic isolation between inputs and interfaces.
- Remote configuration and updates through Ethernet port.
- Up to 8 analog inputs (voltage, current or resistance)
- Protocols Modbus RTU, Modbus TCP/IP, IP, ICMP, UDP, TCP, DHCP, PPP, ARP, IEC60870-5-104:2000.

General description

AIM-8 Controller was designed to measure, record and analyze real time signals. Stored data can be sent to remote users through Ethernet, RS232 or RS485 ports.

In the event of loss of communication, the data is safely stored in the internal memory until communication is restored, providing safety and reliability to processes and control systems.

Supports the most common protocols over serial or Ethernet port (such as Modbus TCP/IP, Modbus RTU, IEC60870-5-104: 2000 ...). For specific applications implementation allows any protocol (under request, check availability).

Some potential applications of the AIM-8 are; environment sensors data logging, electricity consumption monitoring, industrial process monitoring, energy efficiency systems, data acquisition for BMS... all through a single device with open & standard communication (Modbus), greatly simplifying its implementation within the SCADA / Software user.

The communication ports are selectable, allowing you to choose exactly the necessary equipment for each installation.

Ordering code

Model	Interface	Interface	Interface	RTC	Analog Inputs
701 . 009 .	A .	B .	C .	D .	E F G H I J K L

A	0 – None 1 – RS485 2 – RS232
B	0 – None 1 – Ethernet
C	0 – None 1 – USB
D	0 – None 1 – Real Time Clock (RTC)
E F G H I J K L	0 – None 1 – Current input 2 – Voltage input (0..5V) 3 – Voltage input (0..10V) 4 – PT100 sensor 7 – Resistance (0..30KΩ)

Example: **701.009**.2.1.1.0.11223347 RS232 port, Ethernet port, USB port, without RTC, two current inputs, two 0..5V voltaje inputs, one PT100 input and one resistance input (0..30KΩ).

Characteristics

General

Power Suply:	9 – 36 Vcc
Overvoltage protection:	>1000V (max. 5 sec)
Power consumption:	<10 VA

Specifications

CPU:	ARM7 (55MHz)
Flash:	2 MB (Up to 8 MB, under request*) Up to 5 years storage.

Interfaces

RS232:	Up to 15m distance, speed up to 19,2 Kbits/s
RS485:	Up to 1.2 km distance, speed up to 19.2 Kbits/s
USB:	(Configuration) Type B, ver. 2.0
Ethernet:	RJ45. Twisted pair Ethernet 10/100 Mb, up to 100m.
Analog In:	Resistance, voltage or current. Up to 8 Simultaneous inputs. Galvanic isolation 500 V.

LED Indication

Power suply
Read/write of each port
Ethernet connection status

Protocols

Modbus RTU, Modbus TCP/IP, IP, ICMP, UDP, TCP, DHCP, PPP, ARP, IEC60870-5-104:2000

Climate conditions

Working temperature:	-25 .. +60°C
Storage temperature:	-40 .. +60°C
Humidity range:	5 – 95%, w/o condensation

Regulatory approvals

EN 55022:2000+A1+AC:2002+A2:2003
EN 61000-4-4:2005
EN 55024:2000+A1:2003+A2:2003
EN 61000-4-5:2002+A1:2003
EN 61000-4-2+A1+A2:2002
EN 61000-4-6:2002+A1:2003
EN 61000-4-3+A1:2004

CE

Analog inputs

Overvoltage:	18 V
Max current:	0,65 A
Accuracy:	0,025 % f.e.
Quantify error:	± 2 LSB

Physical characteristics

Dimensions:	116x101x33 mm
Weight:	170 g
Material:	PC/ABS
Protection type:	IP20

Mounting

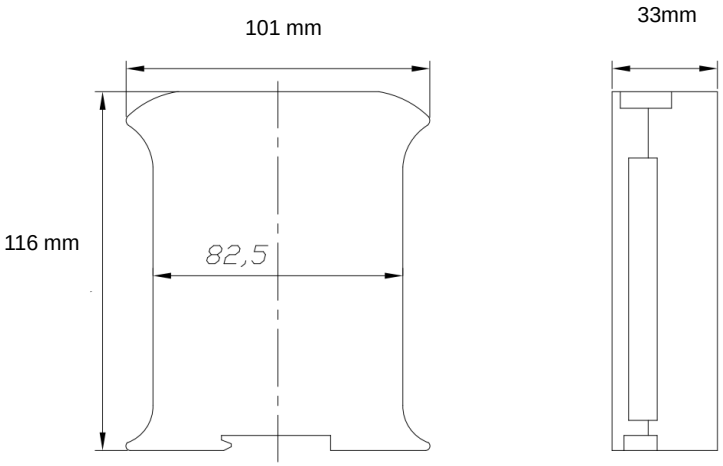
DIN rail

Other features

Made in EU

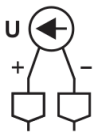
* Check availability

Dimensions (mm)

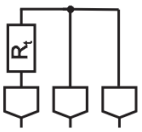


Connection

All the connection terminal blocks are removable, which facilitate the wiring process.

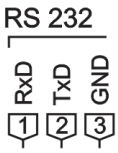


Voltage input (0..5/0..10 V)

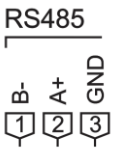


R input (PT100 / 0..30KΩ)

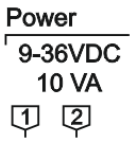
Current input



RS232 port



RS485 port



Power suply (w/o polarity)

Operation

Configurations and updates are made using the software MPC-Config Tool, through local ports (USB, RS232, RS485) or remote connection through Ethernet (default socket port: 502)

To access advanced features, please contact with **Advanticsys** technical support.

Cautions

- Installation and wiring must be made only by qualified personal.
- Remove power suply before connect or disconnect the input/output terminal blocks.
- Double-check connections and polarities before switch on the power suply to avoid permanent damages.

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