AIM-8

Main features:

- Freely chosen interfaces: up to 3 interfaces.
- Suppoerted interfaces: RS485, RS232, USB and LAN.
- Analog inputs: up to 8 devices.
- Supported analog channal types: voltage, current, resistance.
- Supported protocols: Modbus RTU, Modbus TCP/IP, IP, ICMP, UDP, TCP, DHCP, PPP, ARP, SNTP, IEC60870-5-104:200.
- Power: 9-36 VDC (10VA)

First interface (galvanically isolated)		
RS485	distance up to 1,2km, max 32 transivers, speed up to 19.2 Kbits/s	
RS232	distance up to 15m, speed up to 19,2Kbit/s	
Second interface		
Ethernet	twisted pair, 10/100 Mbps, distance up to 100m	
Third interface		
USB (device)	Type B, ver. 2,0	
Discrete and Analog interfaces		
Analogi IN	8	resistance, voltage or current, reading 10 times per second
Protocols		
	Modbus RTU Modbus TCP/IP IP ICMP UDP TCP DHCP PPP ARP SNTP IEC60870-5-104:2000 DynDNS FTP server FTP client DNS client	
General		
Power	9-36 VDC	
Galvanic isolation	>1000V	
Capacity	200mA max	
Regulatory approvals		

Electromagnetic compatibility	EN 55022:2010 EN 55024:2010 EN 61000-4-2:2009 EN 61000-4-3:2006 EN 61000-4-3:2006/A1:2008 EN 61000-4-3:2006/A2:2010 EN 61000-4-6:2009
Safety	EN 60950-1:2006+A1:2010+A11:2009+A12:2011
Specification	
CPU	ARM7
Memory	archive storage 1-8 MB, independant data storage without power about 5 years
LED indication	
Power	+
Serial ports read/write for each port	+
Ethernet status	+
Programing and updating	
Remote	Ethernet (RJ45)
Locally	USB, RS232, RS485
Physical characteristics	
Dimmensions	120x101x35 mm
Weight	170 g
Mounting type	on DIN32 rail
Safety class	IP20
Climate conditions	
Operating temperature	-25..+60 °C
Storage temperature	-40..+60 °C
Humidity range	5-95%, non-condensing
Other fuetures	
Real time clock	+
24 months warranty period	+

OVERVIEW

AIM-8 controller is created for data logging and analyzing of Analog channels in a real time. Controller supports Current, Voltage and Resistance inputs and can be used as standalone device or as extension module (up to 8 Analog IN channels) for other controllers, like MPC-374, MPC-330 and etc.. Using RS232, RS485 or Ethernet, controller sends saved data and reports to remote users.

Controller supports basic interfaces (Discrete inputs, RS232, RS485, Ethernet and USB) and wide range of protocols (and can be extended by our programmers, if you need some special). For data exchange over Ethernet and/or any Serial interfaces, controller uses Modbus TCP/IP, Modbus RTU, IEC60870-5-104:2000, SNTP and other protocols.
Our clients – GAS, Heat, Watering suppliers, Industry companies in EU, Ukraine, Central Asia.
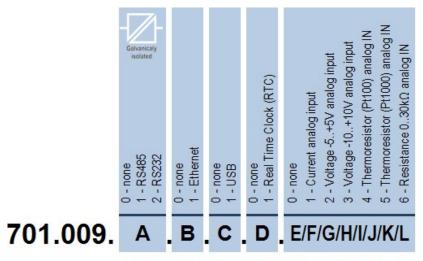
DEFAULT FEATURES

- Up to 8 Analog input ports;
- Current, Voltage and Resistance analog IN chanals;
- Independent data log (up to 8MB) with real time stamp;
- Remote configuration and upgrading possibilities over Ethernet;
- Interfaces: Ethernet, RS232, RS485, USB;
- Galvanically isolated interfaces and power supply.

BENEFIT TO THE CLIENT

- Economy, because controller does a lot of mechanic work, so your professionals can do more important work;
- Increase efficiency, because the data are sent to a central computer continuously. If connection is lost, data will be safe kept in controllers memory, until connection will be reestablished;

- Increases security, because the relevant information is rapidly shorten response time;
- Simplicity, because of intuitive control and optimally assembled LED's it is easy to monitor and maintain equipment;
- A good partner, because we not only help you customize and will make equipment, but also flexibly adapt controller, if your demands will change.

Manufacturers code:

701.009. **A** . **B** . **C** . **D** . **E/F/G/H/I/J/K/L**

Where:
- A (Galvanicaly isolated): 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 analog input, 2 – Voltage -5..+5V analog input, 3 – Voltage -10..+10V analog input, 4 – Thermoresistor (Pt100) analog IN, 5 – Thermoresistor (Pt1000) analog IN, 6 – Resistance 0..30kΩ analog IN

701.009.2.1.1.1.12440000 - (RS232, Ethernet, USB, RTC, A in (current), A in (-5..+5V), A in (Pt100), A in (PT100))