IOMod 8AI

Features

- Data measurement in 16-bit resolution
- Fully configurable data scaling and casting
- Selectable input sensitivity
- Configuration over USB console
- Drag and Drop firmware upgrade over USB mass storage
- Modbus, IEC-60870-5-103 communication over RS485
- Software selectable 120Ω termination resistor for RS485
- LED indication for data transmission
- Easy connection with **WCC Lite** gateway and **CloudIndustries.eu** platform

Concept

IOMod 8AI is a stand-alone Modbus (RTU) and IEC 60870-5-103 8 analog input device. Designed to measure voltage or current values with high accuracy in real-time. **IOMod 8AI** can be used for numerous applications where user needs to log Voltage or Current changes. **IOMod 8AI** can be used to measure temperature, pressure, water level or weight with corresponding sensors (e.g. 4-20mA). **IOMod 8AI** input measurement resolution, data scaling and data casting can be configured by user for each channel individually.

IOMod 8AI is an ideal solution for such applications as data acquisition, observation, control, process monitoring, testing and measurement remotely. It is controlled over Modbus or IEC 60870-5-103 protocol, and can be connected in parallel with other Modbus or IEC 60870-5-103 equipment in a multi-drop installation scheme such as any SCADA system.

When using **IOMod 8AI** with **WCC Lite** gateway, it is possible to monitor Voltage or Current values for each individual input over Ethernet LAN's or 3G/4G(LTE)/GSM/GPRS networks. It is a powerful solution for remote monitoring and control, alarm management and data logging of I/Os on **CloudIndustries.eu** cloud platform.

Characteristics

System

Analog inputs	8
PC USB connection	Mini USB
Input connectors	Screw terminal plug connector

Software

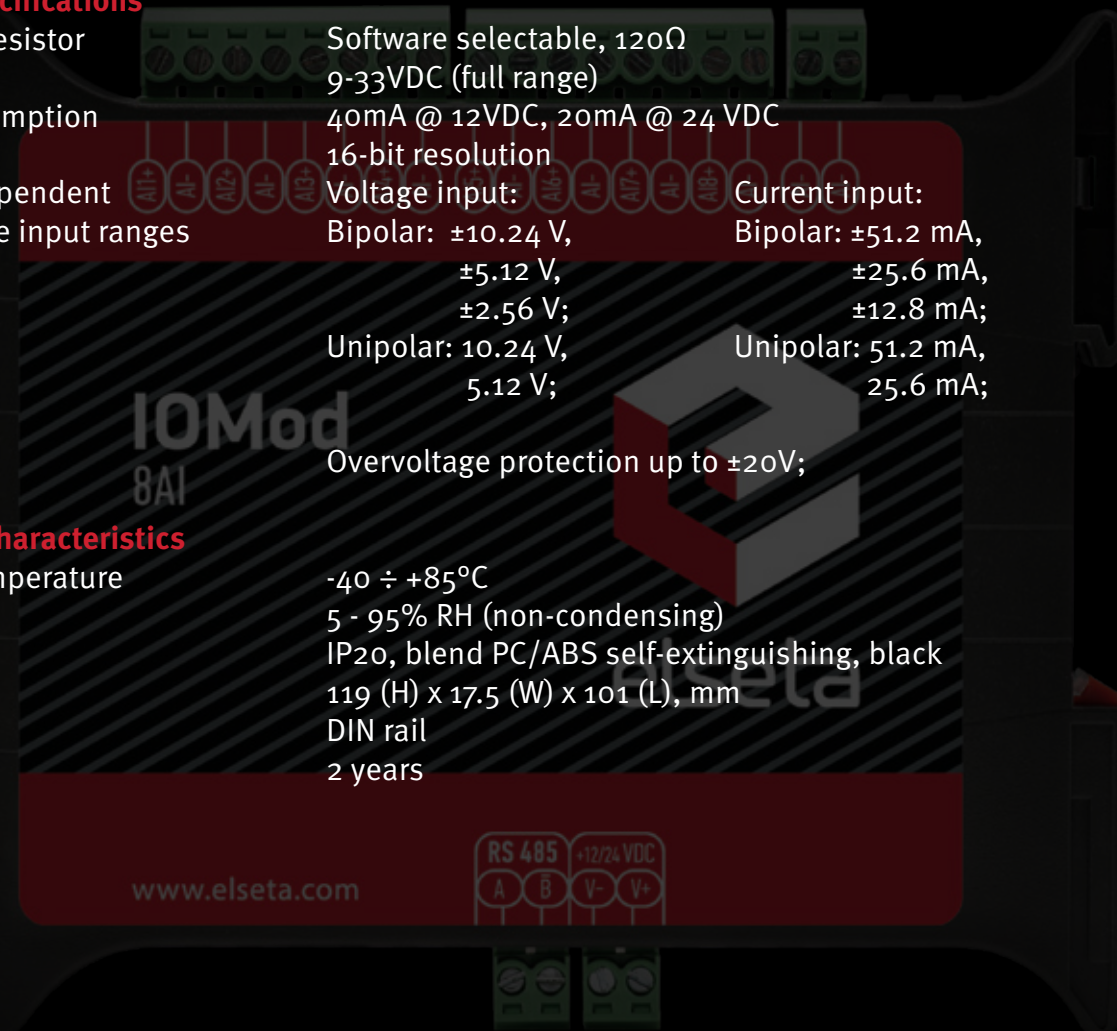|	
Configuration	Over USB console
Firmware upgrade	Over USB mass storage

Communication

Communication standard	RS485
Communication protocol	Modbus (RTU) and IEC 60870-5-103
Speed	300 – 256000 baud

Electrical Specifications

Termination resistor	Software selectable, 120Ω	
Power supply	9-33VDC (full range)	
Current consumption	40mA @ 12VDC, 20mA @ 24 VDC	
Inputs	16-bit resolution	
Channel-independent	Voltage input:	Current input:
Programmable input ranges	Bipolar: ±10.24 V,	Bipolar: ±51.2 mA,
	±5.12 V,	±25.6 mA,
	±2.56 V;	±12.8 mA;
	Unipolar: 10.24 V,	Unipolar: 51.2 mA,
	5.12 V;	25.6 mA;
	Overvoltage protection up to ±20V;	

Mechanical Characteristics

Operating temperature	-40 ÷ +85°C
Humidity	5 - 95% RH (non-condensing)
Casing	IP20, blend PC/ABS self-extinguishing, black
Dimensions	119 (H) x 17.5 (W) x 101 (L), mm
Mounting	DIN rail
Warranty	2 years

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