

MAISBUS MINT MAI-08

Universal Analog Inputs

Description

This module is supplied with Thermocouple, RTD, Voltage and current Inputs. All 8 channels are supplied with user selectable universal Inputs.

We can configure this module with configuration software or any Modbus Master device. All user Zero and Span values for connected sensors are configurable through the configuration software.



Features

- 8 Universal Analog Inputs
- RTD, TC, mV, V and mA
- 16-Bit ADC
- Thermocouple Linearization and CJC
- 2 x MODBUS RTU
- Compact DIN rail enclosures.
- 1500V RMS Isolation
- LEDs for Fault, Communication and Power

Applications

- Cost effective Field Interface to PLC/DCS
- Oil Explorations
- Energy Audits and Distribution
- SCADA
- Water Treatment
- Building Automation
- Environment Monitoring
- Access Control & Security

Technical Specification

Communication

Interface	2 Wire, EIA RS485
Protocol	Modbus – RTU
Available Ports	2 x RS485 Multi-drop Serial Communication
Baud Rate	9600, 19200, 38400, 57600, 115200
Parity	ODD, EVEN, NONE
Data bits	8
Stop bits	1, 2

Status Indication

LEDs	Power, Module Status, Communication, Channel Status
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Input Specification

Input Points	8
Thermocouple	E, J, K, T, B, R, S, N
RTD	Pt100 (3 wire), Cu-53, NI- 120
Resistor Input	Up to 2K Ω
Current	0-20mA, 4-20mA (External 50 Ω \pm 0.1% resistor)
Voltage	-10V to +10V -100mV to +100mV -50mV to +50mV -250mV to +250mV -1V to +1V
Accuracy	0.1% of FS
ADC resolution	16 bits
Input Impedance	V > 1M Ω mA < 100 Ω mV/TC > 1M Ω
RTD Excitation	250 μ A
Sensor Burn-out Current	0.5 μ A
CMMR/NMRR	CMRR > 100dB NMRR > 60dB at 50Hz
CJC Error	\pm 1 $^{\circ}$ C (0 to 55 $^{\circ}$ C)

Power

Voltage	24VDC \pm 10%
Current	100mA max
Power Consumption	< 3W

Field components

	50 Ω connected external for Current Inputs
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Isolation

Channel to System	1500 VAC RMS
Supply to RS485	1500 VAC RMS
Supply to Logic	1500 VAC RMS

Environmental

Operating Temperature	0 to 55 $^{\circ}$ C
Storage Temperature	-10 to 70 $^{\circ}$ C
Humidity	30 to 95% RH non- condensing

Physical

Dimensions	22.5(W) x 101(H) x 120(D) mm
Mounting	DIN Rail
Weight	160 gms approx.
Enclosure Material	Molded ABS

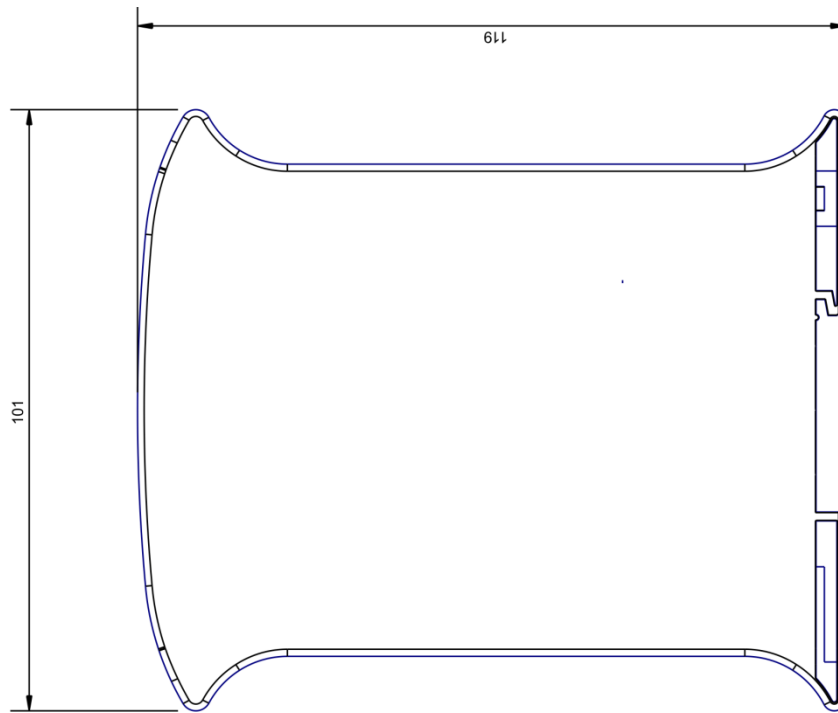


Figure 1: Physical Dimensions (mm)

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