



# MAS-AI-08-D

## Field Interface Board

### 8 Analog Input

Masibus Analog Input Field Interface Board has 8 channels that accepts various types of current/voltage signals and converts them to isolated current/voltage signals. It is compact universal DIN rail mounted with labeled input and output connections. Independent zero & span adjustment for each channel is possible.

### Applications

- Eliminate Ground Loop problems
- Protect Expensive control systems against Field Faults
- Isolate and Translate Field Signals
- Eliminate Common Mode Voltages
- Field Interface for PLC/DCS/SCADA systems

## TECHNICAL SPECIFICATIONS

### 8-Channel Analog Input Field interface Board

Input		Output	
No of Channels & Type	8 Channel DC Volt/Current (Factory Set)	Output	As per Ordering Code
Input Range	As per Ordering code	Response Time	≤3 milli second at full load
Input Impedance	Current: I/P: 100 Ohms Voltage: I/P: >5M Ohms	Output Terminals	PCB Terminal Block or 25 pin D-Type connector
Bad Input Indication	Red LED for over/under range (1-5V/4-20mA only)	Load Impedance	0/1 to 5V @ 1KΩ min, 0 to 10V @ 3KΩ min 0/4 mA to 20mA @750Ω max
I/P Connection	PCB Terminal Block accepts 2.5mm <sup>2</sup> conductor size	Accuracy	0.1% of Span
Transmitter Supply	24V ± 10% Current limited @ approximately 25mA	Drift	0.1% per Year
		Calibration	Zero & Span Individual per channel by multi-turn trim pots

# TECHNICAL SPECIFICATIONS

## 8-Channel Analog Input Field interface Board

Power Supply		Physical	
Power Supply	24VDC $\pm$ 10%	Dimension (in mm)	200(L) x 90(W) x 90D
Fuse Rating	2 Amp (Fast Blown)	Mounting	DIN Rail (35 mm width)
Power Consumption	< 18VA	Profile Material	PVC
LED Indication	Green LED - Healthy status Red LED - Fault Status	Terminal Block	UL, CSA standard
Isolation		Terminal Cable Size	Upto 2.5mm <sup>2</sup> conductor
		Weight	Approx 450 gm
Isolation		Environmental	
1.5KV AC Input to Power, Channel to Channel, Input to Output and Output to Power		Operating temperature	0 to 50 °C
		Humidity	30 to 95% RH non-condensing
		Environmental Protection	Conformal Coating on PCB

### Ordering Code

Model	Input Type & Range	Output Type & Range	Output Type & Range			
MAS-AI-08-D	X	X	X			
	C	4-20mA	C	4-20mA	0	PCB Terminal Block
	D	0-20mA	D	0-20mA	1	D Type connector
	E	1-5VDC	E	1-5VDC		
	F	0-5VDC	F	0-5VDC		
	G	0-10VDC	G	0-10VDC		
	S	Special	S	Special		

**\* For Special Range Consult Factory**

### Connection Details

