

## Field Interface Board

# MAS-AI-08-D

## 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

No of Channels & Type	8 Channel DC Volt/Current (Factory Set)
Input Range	As per Ordering code
Input Impedance	Current: I/P: 100 Ohms Voltage: I/P: >5M Ohms
Bad Input Indication	Red LED for over/under range (1-5V/4-20mAonly)
I/P Connection	PCB Terminal Block accepts 2.5mm <sup>2</sup> conductor size
Transmitter Supply	24V ± 10% Current limited @ approximately 25mA

##### Output

Output	As per Ordering Code
Response Time	≤3 milli second at full load
Output Terminals	PCB Terminal Block or 25 pin D-Type connector
Load Impedance	0/1 to 5V @ 1KΩ min, 0 to 10V @ 3KΩ min 0/4 mA to 20mA @750Ω max
Accuracy	0.1% of Span
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

Power Supply	24VDC $\pm$ 10%
Fuse Rating	2 Amp (Fast Blown)
Power Consumption	< 18VA
LED Indication	Green LED - Healthy status Red LED - Fault Status

### Isolation

Isolation	1.5KV AC Input to Power, Channel to Channel , Input to Output and Output to Power
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### Physical

Dimension (in mm)	225(L) x 90(W) x 90(D)
Mounting	DIN Rail (35 mm width)
Profile Material	PVC
Terminal Block	UL , CSA standard
Terminal Cable Size	Upto 2.5mm <sup>2</sup> conductor
Weight	Approx 450 gm

### Environmental

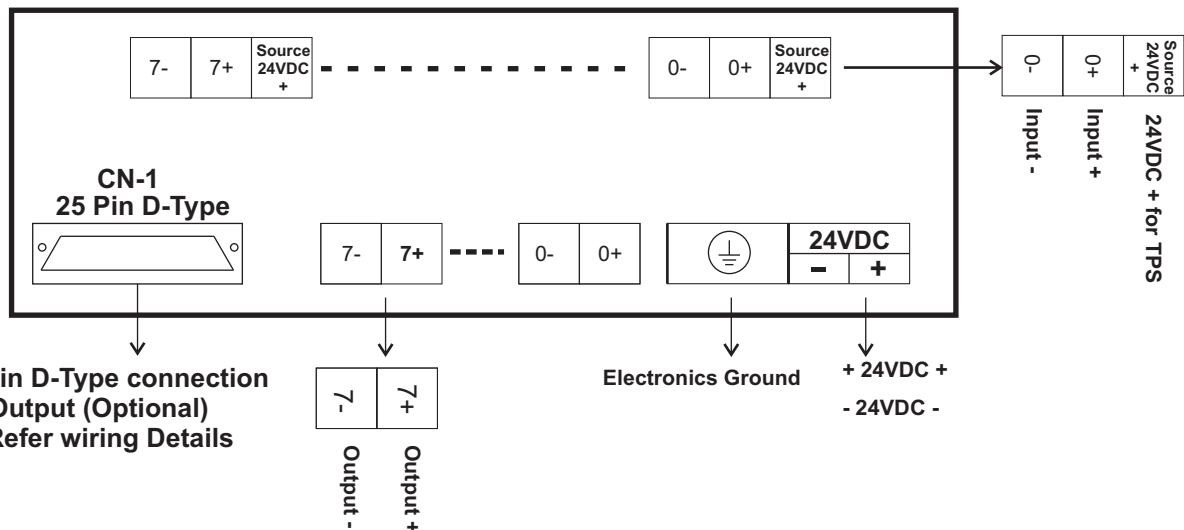
Operating Temperature	0 to 50°C
Humidity	30 to 95% RH non-condensing
Environmental Protection	Conformal Coating on PCB

## ORDERING CODE

Model	Input Type & Range	Output Type & Range	Output Connection
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



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All specifications are subject to change without notice due to continuous improvements.  
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### Masibus Representative: