



MAS-AI-08-D

Field Interface Boards

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. Independent zero & span adjustment for each channel is possible.

This Board is having screw terminals at field side and 25 pin D-Sub male connector / screw terminals at system side used for interfacing PLC/DCS analog input card to field.

Features

- 3-Way isolation for analog signals
- Wide input / output range
- +/- 0.1% accuracy across span
- Drift 0.1% per year
- LED indication for signal over / under
- 24VDC @25mA transmitter power supply
- Output option with D-type Male Connector Or Screw terminals
- Front calibration facility via multiturn trimpot
- Universal DIN Rail mounting

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	25 Pin D- Type Male Connector Or Screw terminals
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.
Noise Rejection	>60dB@50Hz	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 ² conductor
		Weight	Approx 450 gm
Isolation		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 Type & Range
MAS-AI-08-D	X	X	X
	C 4-20mA	C 4-20mA	0 Screw terminals
	D 0-20mA	D 0-20mA	1 D Type male 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**

Cable Ordering Code

Model	Cable Length
m-PC-D25F-LG	XX
	C 2.5 Meter
	D 3.0 Meter
	E 3.5 Meter
	F 5.0 Meter
	G 7.0 Meter
	S Special

Note: 20 Core 0.14mm² with DB 25 Female connector at one end and lug at another end.
*** For Special Requirement Consult Factory**



Connection Details

