

# MAS-AO-08-D Field Interface Boards 8 Analog Output



Masibus Analog Output 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 output 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
- 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 system signals
- Field interface for PLC/DCS/SCADA systems

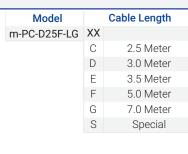
# **TECHNICAL SPECIFICATIONS**

8-Channel Analog Output Field interface Module											
	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	≤20 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								
I/P Connection	Screw terminals or 25 pin D-Type male connector	Load Impedance	0/1 to 5V @ 1KΩ min. 0 to 10V @ 3KΩ min. 0/4 mA to 20mA @750Ω max.								
		Fault Indication	Red LED for over/under range (1-5V/4-20mA only)								
		Accuracy	0.1% of output span								
		Drift	0.1% per year								
		Calibration	Zero & span individual per channel by multi-turn trim pots								

## **TECHNICAL SPECIFICATIONS**

8-Channel Analog Output Field interface Module											
Power Supply						Physical					
Power Supply	24VDC ±10%					Dimension (in mm) 225(L)			90(W) x 90(D)		
Fuse Rating	2 Amp (Fast blown)					Mounting		DIN Rail	DIN Rail (35 mm width)		
Power Consumption	< 12VA					Profile Material		PVC	PVC		
LED Indication	Green LED - Healthy status				Terminal Block		UL, CSA	UL, CSA standard			
LED Indication	Red LED - Fault status				Terminal Cable Size		Size Upto 2.5	Upto 2.5mm <sup>2</sup> conductor			
Isolation						Weight Approx 400 gm			100 gm		
	1.5KV AC input to power, Output to output,			Environmental							
Isolation	Input to output and Output to power				Operating T	Operating Temperature 0 to 50 °C		С			
					Humidity 30 to 95% RH i			% RH non-condensing			
				Environmer	ntal Protection Conformal coating on PCB						
Ordering Code											
	Model	Inp	ut Type & Range	e Output Type		be & Range	Input Connection				
	MAS-AO-08-D	Х		Х			Х				
		С	4-20mA	С	4	-20mA	0	ScewTerminals			
		D	0-20mA	D	0	-20mA	1	D Type male connector			
		Е	1-5VDC	Е	1	-5VDC					
		F	0-5VDC	F	0	-5VDC					
		G	0-10VDC	G	0-	10VDC					
		S	Special	S	S	Special	* For Special Range Consult Factory				

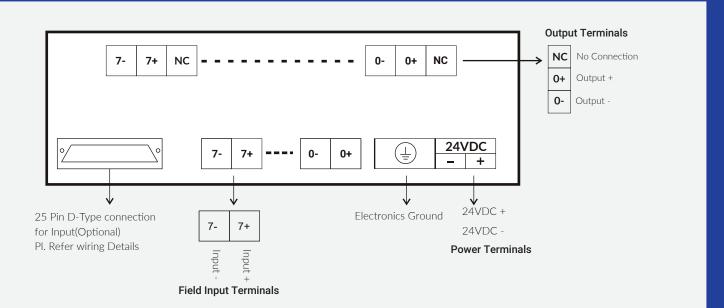
#### Cable Ordering Code



Note: 20 Core 0.14mm<sup>2</sup> with DB 25 Female connector at one end and lug at another end. \* For Special Requirement Consult Factory



#### **Connection Details**



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All specifications are subject to change without notice due to continuous improvements. Doc. Ref. FIB MAS-A0-08-D/R1F/0823