

Field Interface Board

MAS-AI-RTD-08-D 8 RTD Input

Masibus RTD Field Interface Board has 8 nos of RTD Pt-100; 3W input channels and offers field selectable 4-20mA/ 1-5 VDC o/p. It is compact universal DIN rail mounted. Calibration for each channel is done by Zero & Span setting by trim-pots. Response time is less than 50 msec. This interface module is equipped with open sensor detection & reverse voltage protection.

Applications

- Multi-channel RTD to current converter
- Field Interface for PLC/DCS/SCADA
- Reduce cost/channel for RTD input
- Panel space saving

Technical Specifications

Input		Output		
No of Channels & Type	8 Channel RTD-PT100-3 Wire (With 3 wire compensation) (Factory Set)	Output	4-20mA or 1-5V (jumper selectable)	
		Response Time	≤50milli second at full load	
Input Range	As per Ordering code	Output Terminals	PCB Terminal Block accepts	
Input Impedance	RTD I/P > 5M		2.5mm ² conductor size	
I/P Connection	PCB Terminal Block accepts 2.5mm ² conductor size	Load Impedance	For Current: upto 750 Ohms For Voltage: more than 250K Ohms	
		Accuracy	0.1% of output span	
		Drift	0.1% per Year	

Calibration

Zero & Span Individual per channel

by trim pots

Technical Specifications

8-Channel RTD Field interface Board					
Power Supply		Physical			
Power Supply	18-36 VDC ±10%	Dimension (in mm)	18		
Fuse Rating	2 Amp (Fast Blown)	Mounting	D		
Power Consumption	0.5W per channel	Profile Material	P		
LED Indication	Green LED - Healthy status	Terminal Block	U		
Isolation		Terminal Cable Size	Up		
		Weight	Ap		
Isolation	1 KV AC between Supply to Signal No isolation between Input to Output	Environmental			

Dimension (in mm)	180(L) x 90(W) x 75(D)		
Mounting	DIN Rail (35 mm width)		
Profile Material	PVC		
Terminal Block	UL , CSA standard		
Terminal Cable Size	Upto 2.5mm ² conductor		
Weight	Approx 400 gm		
Environmental			
Operating Temperature	0 to 50°C		
Humidity	30 to 95% RH non-condensing		
Environmental Protection	Conformal Coating on PCB		

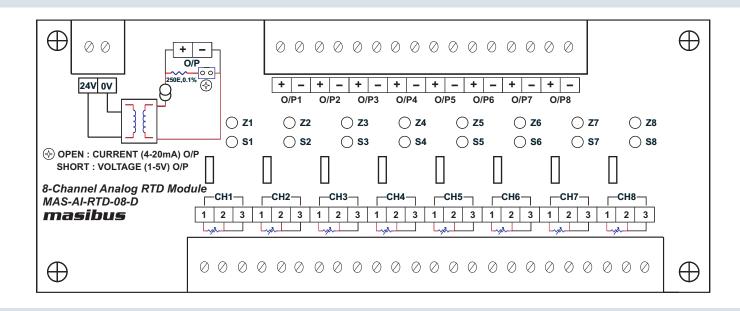
ORDERING CODE

For Example: For Input: 0 to 200°C Model: MAS-AI-RTD-08-D-1

Model	Input Range	
MAS-AI-08-D	X	
	1	0 to 200°C
	2	0 to 600°C
	S	Special Range

* For Special Range Consult Factory

Connection Details



Head Office:

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All specifications are subject to change without notice due to continuous improvements. Doc. Ref. FIB MAS-AI-RTD-08-D/R0F/0114

Masibus Representative:		