

Triguard SC300E MAI32*AD 32-Channel A/I Module Differential Input

SPECIFICATION

Input parameters

All models have 32 input channels configured as follows:

Model number	Voltage input applications
MAI32LAD	0 to 5Vdc
MAI32MAD	0 to 10Vdc

Current input applications

0 to 20mA. Use TAI16AIR (BIR) with MAI32LAD

0 to 40mA Use TAI16AIR (BIR) with MAI32MAD

Model	See under "input range"
Channels	32
Architecture	TMR
Indicators	Health 3 x On Line
Channel Input Test Ponts	Switch selectable on front panel
Input range	MAI32LAD: 0 to 5Vdc MAI32MAD: 0 to 10Vdc
Input overrange protection	±40Vdc
Resolution	12 bits
Accuracy @ 25°C	± 0.04% over full signal range
Stability (temperature coefficient)	±20ppm/°C
Analogue to digital converter	SAR (monotonic)
Sample rate	40ms nominal
Input impedance	>20M ohm
Power off impedance	>12k ohm
Common mode range	±11Vdc
Isolation	1kVdc system/channel ±15Vdc channel to channel
Power consumption	
By system	7.5W excluding input loads
By input loads	3.2W maximum for 20mA module
Overall size (mm)	400(9U)H x 397L x 28W
Overall size (inches)	15.75H x 15.63L x 1.1W
Weight	1.6kg