

DATA SHEET

Part N°DS TB 22-1738R

MIC-22 TERMINAL BLOCK

MIC-738R 6 Optoisolated Analog Inputs - Thermoresistors

The module provides 6 optoisolated analog input channels for 3-wire temperature measurement using sensor types Pt 100, Pt 50, Cu 50, Cu 53, Cu 100 and Ni 100 driven by on-board current source.

Specifications:

Isolation: - 1000VDC (optionally 1500VDC) to the system
 - channel to channel - single ended

Overvoltage protection: ± 35 V

Resolution: 12 bit

Open sensor detection

Conversion time: 80 ms

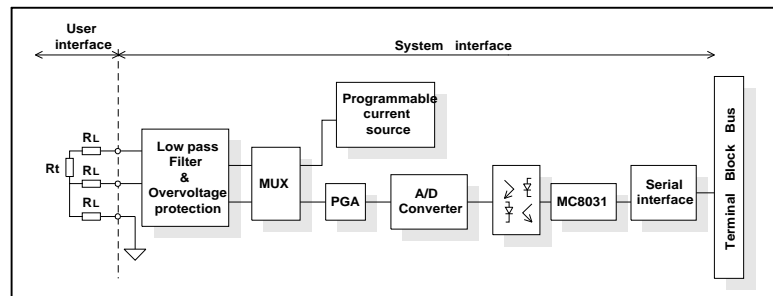
Input impedance: 10 M Ω

Power consumption: 500 mW per channel

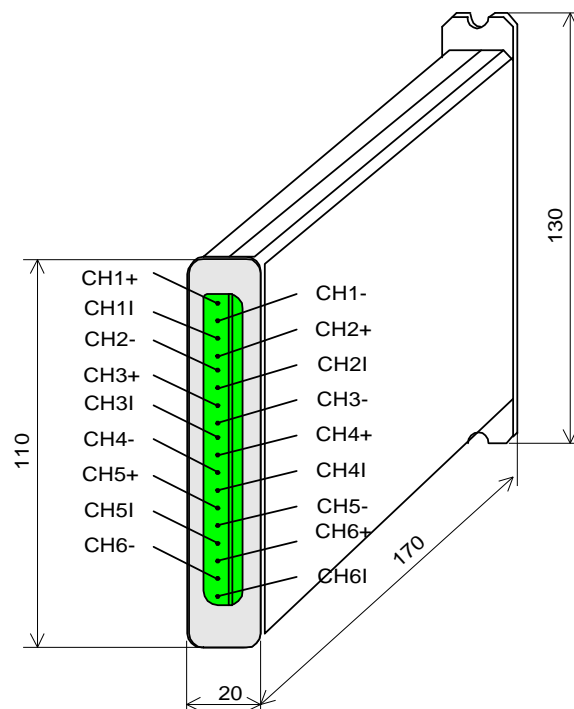
Weight: 150 g

Sensor type	Range °C	Accur. °C
Cu 100	-200...+200	0,6
Cu 50	-50...+200	0,4
Cu 53	-50...+180	0,4
Pt 100 DIN	-200...+850	1,1
Pt 100 Γ OCT	-200...+490	1
Ni 100	-60...+180	0,35
Pt 50	-228...+368	1

Line resistance (RL): max 10 Ω



Input channel schematic



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ENVIRONMENTAL CONDITIONS:	REFERENCE	EXTREME	TRANSPORTATION
Temperature range	20°C to 25°C	0°C to 50°C	-30°C to 65°C
Humidity (%RH)	10% to 60%	10% to 90%	5% to 95%