

TBOX MS-8RTD

Version 0.92 (preliminary)

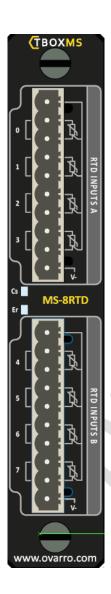




TBOX MS-8RTD

- 8 x temperature inputs
- Sensors supported: Pt100, Pt1000, Ni100, Ni1000
- 2 or 3 wires sensors

Technical Specifications



General		
Compatibility		MS-CPU32-S2 It requires firmware OS >= 1.45.505 . It replaces MS-6RTD but is not compatible. Cabling and application must be adapted.
Consumption		115 mA
Configuration		
	Hardware Software	No hardware configuration required Signal selection during channel configuration
Pt100, Pt1000		
	Temperature range	-50°C +230°C
	Curves	If out of range, value= -273.15°C Not available
Ni100, Ni1000		
	Temperature range Curves	not tested yet not available
Scaled resolution		0.1 °C
Accuracy		0.5 % FS @ 25°C
Filter		50Hz and 60Hs rejection
Acquisition		< 1 s for all inputs
Replacement		Hot removable. No risk to damage hardware, but reset is required.
Test		Automatic test of card access by the CPU.
Connector		Screw connector (10 x 5.08 mm) Wire thickness: 0.14 – 2.5 mm² (or max. 12 AWG)
Isolation		

Between channel	Non isolated
Group to Ground/Earth	Global isolation
Level of isolation	1500 V DC

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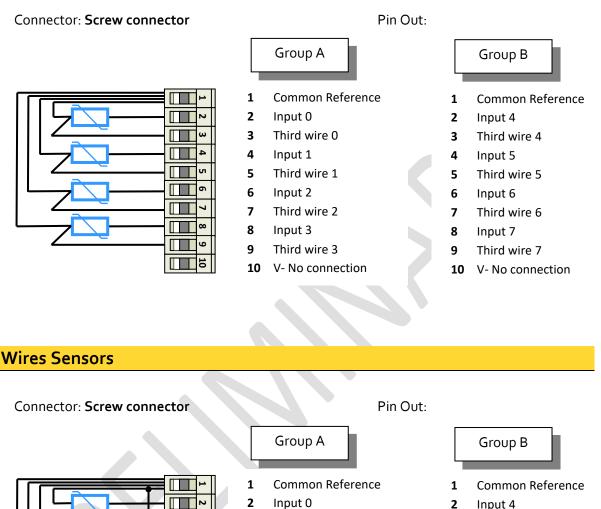


Digital Input - Validity	
Validity input (DI)	Returns '0' when temperature is out of range Returns '1' when temperature is within the range
LED	
Cs	Card Selection: card corresponding to card declared in TWinSoft
ER	Error: card type not corresponding to the one declared in TWinSoft
Environment	
Temperature storage	-40°C to 85°C
Temperature working (ambient)	Industrial Temperature: -40°C to 70°C
Humidity	5 to 95 % without condensation
Altitude	Max. 5000 m
Dimensions	
Without connector	Height x Depth x Width: 150 x 83 x 29 mm (5.906 x 3.27 x 1.142 inches)
Weight	300 g
Approvals	
	CE

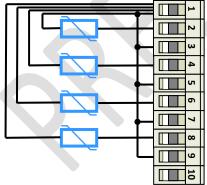
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3 Wires Sensors



2 Wires Sensors



- 3 Third wire 0
- 4 Input 1
- 5 Third wire 1
- 6 Input 2
- Third wire 2 7
- Input 3 8
- Third wire 3 9

10 V- No connection

- Input 4
- 3 Third wire 4
- Input 5 4
- 5 Third wire 5
- 6 Input 6
- 7 Third wire 6
- Input 7 8
- 9 Third wire 7
- 10 V- No connection

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