

TBOX MS-4Al420 Version 3.06





TBOX MS-4AI420

- 4 analog inputs 4..20mA
- Isolated one by one



Technical Specifications



General		
Consumption		10 mA
Configuration	Hardware Software	No hardware configuration required Signal selection during channel configuration
Mode		Passive, input stage powered by the loop
Signals	420mA	Cabling to 4/20. Select in TWinSoft, signal 420mA
Resolution	ADC Current	14 bits 3.1 μΑ
Accuracy @ 25°C	Current	0.1% FS
Voltage on Input		Typ.: 4.5 Vdc Max. 6 Vdc
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)
Protection		
Polarity		Protection against inversion of polarity
Voltage		Protection against voltage applied to the input (max : 30 Vdc – 50 mA)
Isolation		
Each input		Isolated one by one, from CPU GND and Earth
Level of isolation		500 Vrms

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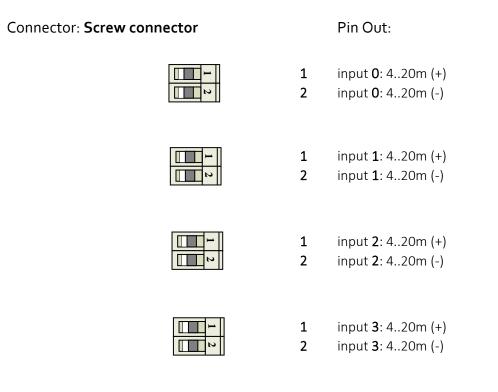


Digital Input	
Validity input (DI)	Returns '0' when signal < 2.4mA and > 21.6 mA Returns '1' when the 420mA signal is valid
LED	
Cs	Card Selection: card corresponding to card declared in TWinSoft
ER	Error: card type not corresponding to the one declared in TWinSoft
Environment	
Temperature storage	-40°C 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, UL, CSA, C-Tick

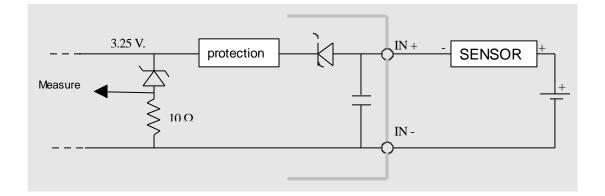
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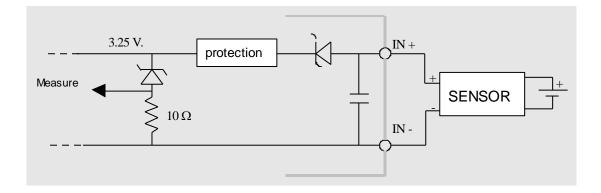
Cabling Schematic



Cabling to 2 Wires sensor (current)



Cabling to 4 Wires sensor (current)



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Technical specifications may change before prior notice