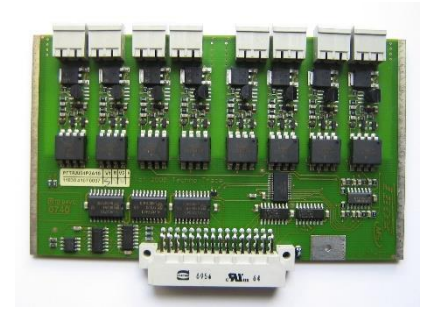


TBOX MS-8AI420

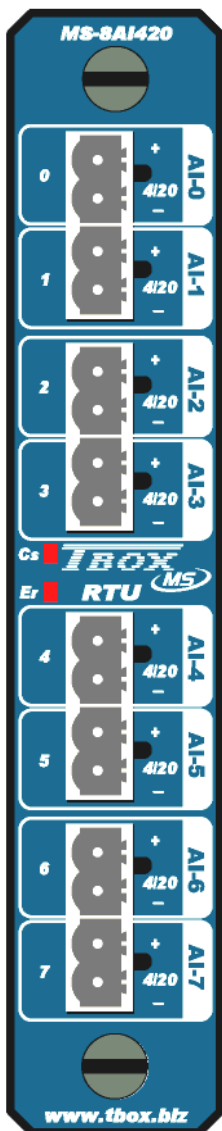
Version 3.06

TBOX MS-8AI420

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



Technical Specifications



General

Consumption	10 mA
Model	Passive, input stage powered by the loop
Resolution	ADC 14 bits Current 3.1 μ A
Accuracy @ 25°C	0.1% FS
Voltage on Input	Typical: 4.5 Vdc Maximum: 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 mm ² (or max. 12 AWG)

Digital Input

Validity input (DI)	Returns '0' when signal < 2.4mA and > 21.6 mA Returns '1' when the 4..20mA signal is valid
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Isolation

Each input	Isolated one by one, from CPU GND and Earth
Level of isolation	500 Vrms

Protection

Polarity	Protection against inversion of polarity
Voltage	Protection against voltage applied to the input (max : 30 Vdc – 50 mA)

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	15 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

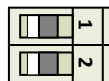
Approvals

CE, UL, CSA, C-Tick

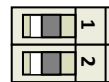
Cabling Schematic

Connector: Screw connector

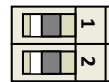
Pin Out:



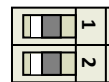
1 input 0: 4..20m (+)
2 input 0: 4..20m (-)



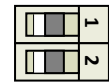
1 input 1: 4..20m (+)
2 input 1: 4..20m (-)



1 input 2: 4..20m (+)
2 input 2: 4..20m (-)



1 input 3: 4..20m (+)
2 input 3: 4..20m (-)



1 input 4: 4..20m (+)
2 input 4: 4..20m (-)



1 input 5: 4..20m (+)
2 input 5: 4..20m (-)

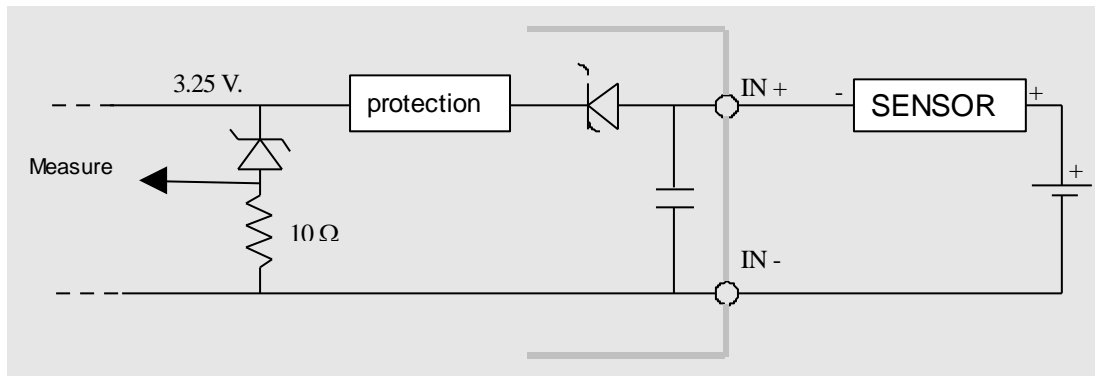


1 input 6: 4..20m (+)
2 input 6: 4..20m (-)



1 input 7: 4..20m (+)
2 input 7: 4..20m (-)

Cabling to 2 Wires sensor (current)



Cabling to 4 Wires sensor (current)

