Device Description:

ATX423 module provides monitoring of four external analog temperature sensors based on PT100 or PT1000 sensors. Measurement accuracy equals 1°C. The module has independent certificate from certification body that confirms meeting the requirements of ATEX Directive, what allows the module to be used in any hardware configuration along with other PLC controller modules, matched to the customer needs. The construction of the module meets the requirements of IEC61131 norm in range of standarization of functional and operational features and programming process. To keep appropriate intrinsically safe feature the module should be placed in a casing with at least IP54 protection degree and meeting the requirements of EN 60079-11:2012 norm.

Technical characteristics:

ATEX certificate number	FTZÚ 13 ATEX 0086X

Supply parameters:

Supply voltage U_N	6,5 ÷ 15 VDC
Maximum supply voltage U_I	15,8 VDC
Maximum supply current I_I	2,73 A
Maximum current draw from battery I_{AK}	
for version RS485 / I2C	< 10 mA
for version CAN	< 15 mA
Local communication bus	RS485 / CAN / I2C (possible versions of module implementation)

Transmission speed for interfaces:

	I2C	100 000 bps
	RS485	9600, 19200, 38400, 57600, 115200 bps
	CAN	20000,50000, 125000, 250000, 500000,1000000 bps

Number of measurement inputs	4
Measurement accuracy in range 0÷200⁰C	1⁰C

Maximum resistance of measurement loop

(influence on measurement error below 0,5⁰C):

- for sensors PT100	0,37 Ω
- for sensors PT1000	1 Ω

Normal working conditions:

Casing type	I M1 Ex ia I Ma module placed in device with IP54 casing protection degree and meeting the requirements of EN 60079-11:2012 norm
Working temperature range	0 ÷ 60 ⁰C

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