



Device Description:

ATX441 module provides monitoring of two external 4-wires temperature sensors based on PT100 or PT1000 sensors. Accuracy of measurement equals 0,1°C. The module can be equipped with one of three available interfaces: I2C, RS485 or CAN. 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. The construction of module meets the requirements of IEC61131 norm in range of standardization 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 14 ATEX 0056X
Supply parameters:	
Supply voltage U_N	6,5 ÷ 15 V DC
Maximum supply voltage U_I	15,8 V DC
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 analog inputs (PT100, PT1000)	2
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 °C