Device Description:

ATX412 module contains a microprocessor that allows to process data sent through different interfaces from external devices and transmit calculation results on output devices. The user has at his disposal 4 Rs422 ports, CAN port, I2C, Ethernet, SPI and 8 binary input ports. 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 modules, matched to the customer needs. The construction of controller main module meets the requirements of IEC61131 norm in range of standarization of functional and operational features and programming process. The compliance with the norm allows the customer to program the controller by himself, has influence on whole life cycle of the code, speeds up the designing, implementation, testing and modernization. The system used in the controller allows to program in all programming languages included in IEC 61131-3 norm: Instruction List (IL); Structured Text (ST); Function Block Diagram (FBD); Ladder Diagram (LD); Sequential Function Chart (SFC).

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AUTOMATION AND CONTROL FOR MINING

Technical characteristics:

ATEX certificate number	FTZÚ 13 ATEX 0084X

Supply parameters:

Supply voltage U_N	6,5 ÷ 15 V DC
Maximum supply voltage U_I	15,8V DC
Maximum supply current I_I	2,73 A
Maximum current draw from battery I_{AK}	
for supply voltage 7 V	< 130 mA
for supply voltage 12 V	< 95 mA
Local communication bus	RS485 / CAN / I2C (possible versions of the module implementation)

External communication ports:

- RS422 communication port	4
- Binary input circuits	8
- Ethernet communication port	1
- SPI communication port	1 (to connect LCD display)
- CAN communication port	1
- I2C communication port	1

Normal working conditions:

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

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