



✓ Device description:

Digital control device CUKS-MPS1 based on modular intrinsically safe programmable controller is designed to control and visualize the work of machines and devices used in underground mining plants in zones with danger of methane and / or coal powder explosion. Each elements of intrinsically safe programmable controller hold independent certificates of notified certification body that confirm fulfillment of ATEX Directive. This allows any hardware configuration, adjusted to client needs. The construction of controller fulfills demands of IEC61131 norm in terms of standardization of functional and operational features and programming process. Compatibility with the norm allows individual programming of the controller and has an influence on the code life cycle. It speeds up the designing, implementation, testing and modernization of the controller. Used system allows programming in all languages included in IEC61131-3 norm: Instruction List (IL), Structured Text (ST), Function Block Diagram (FBD), Ladder Diagram (LD), Sequential Function Chart (SFC). Every module of the controller can communicate with each other in one of three available interfaces: I2C, RS-485 or CAN.

Technical characteristics:

Supply voltage U_N	6,5 - 15 VDC
Parametric inputs	8 inputs (every distinguishes four states: open, close, line control state high or low)
Transmitter outputs	4 outputs (load capacity 1A)
Safety module	control of one or two circuits
Acoustic signals generator module	possibility to separate independent audio lines
Signaling operation status	16 lines synoptic table
Device category	I M1
Casing type	Ex ia I Ma
Casing protection degree	IP54
Width x Height x Depth	410 x 300 x 170mm
Weight	10 kg

Examples of use:

