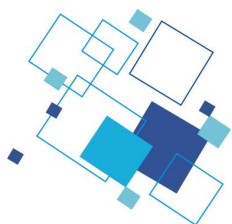
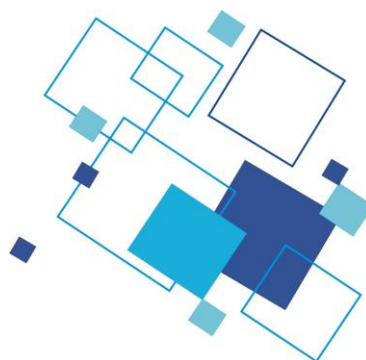


TELEMETRIC CENTRAL STATION

CST-40C



Catalogue card



DESCRIPTION

Telemetric central stations type CST-40C is designed for continuous control and recording of parameters concerning work safety in mines with methane and fire hazards and automatic signaling them in the dispatch room as well as switching off the power supply of machines and electric devices in cases where permissible parameters have been exceeded. CST-40C provides remote and automatic monitoring of methane content in ventilation air and methane extraction pipelines, air speed, carbon dioxide and oxygen content, temperature and other parameters of the atmosphere in mine headings. It is also possible to measure other parameters provided that the sensors used have work parameters compatible with the transmission convention of the central station.

Telemetric central stations CST-40C has maximum 80 measurement lines that can be connected, directly, to sensors or other devices for instance other switchboards.

CST-40C performs automatic power supply shutdowns thanks to the line of shutdown devices through the shutdown matrix, directly by means of sensors, shutdown devices or switchboards. The shutdown matrix is presented in a graphic form, enabling an instantaneous judgment by the operator, responsible for connections between the devices. The possibility of determining the links of the shutdown matrix within the framework of a few units of the CST-40C, CST-40A, CST-40, is an additional advantage. The information about the overflow at one switchboard may be passed on to another, within the framework of the matrix, to switch off power.

Any configurational changes within the framework of the CST-40C unit, provided it is connected with the main system (SWμP-3 system), may be performed from only one position - from the dispatcher's position – consequently the configuration will be passed on to appropriate switchboards.

The CST-40C is designed for mining dispatch-offices - safe zones in terms of steam and gas explosions.

BASIC TECHNICAL DATA

Power supply	230 VAC (+10%, -15%), 50HZ
Power consumption	<800 VA (for 80 channels)
Number of measurement channels	max. 80 – one central station CST-40C
Operation mode	automatic with possibility of manual query
Measurement time of one line	1 ÷ 4s depending on type of sensor
Time of one measurement cycle	1 ÷ 8s depending on type of sensor on the line
Power supply shutdown time	< 5 s - eg. for sensors CSM-1, CSM-3
Distance between central and sensor	≤ 10 km (CSM-1, CSCO-1, CSM-3, CSHT-1)
Charging and query current	27 mA, 35mA or 40mA
Recording of measurement results	Line cartridge KL-2
Visualization	LCD monitor
Alarm thresholds	set up in all measurement range
Sending of overflow alarms	from any alarm circuit to any lines in the system of CST-40C central stations
Dimensions	2060 x 600 x 660
Cabinet Ingress Protection	IP20, IK10

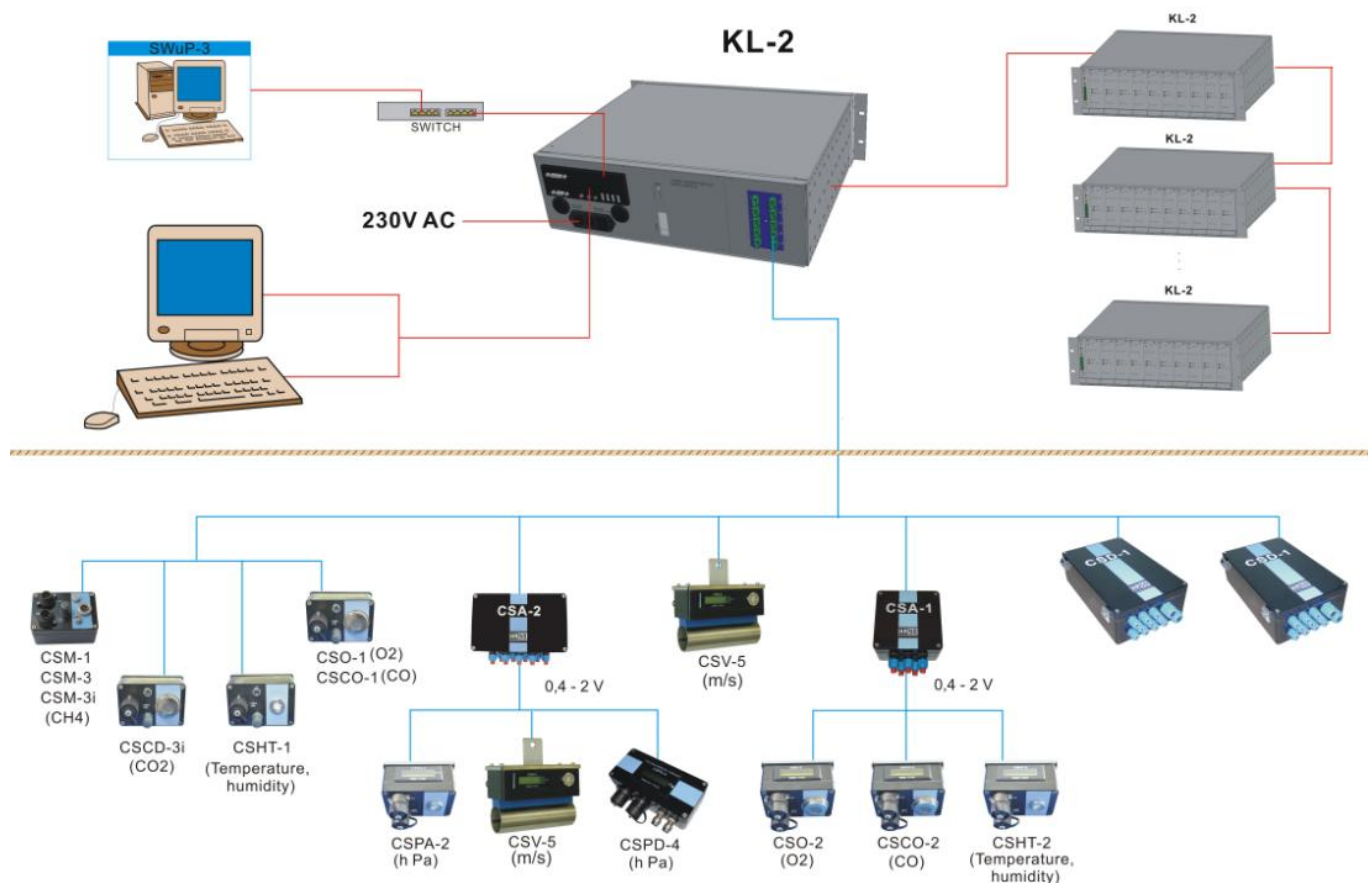
EXPLOSION-PROOF MARK



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EC type examination certificate: KDB 05 ATEX 210X

Configuration of CST-40C based on line cartridge KL-2



Configuration of CST-40C based on line cartridge KL-2

