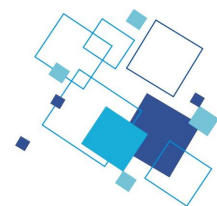
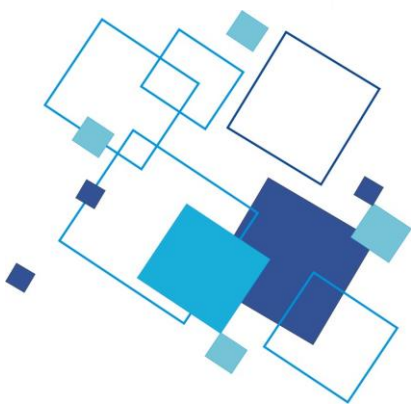
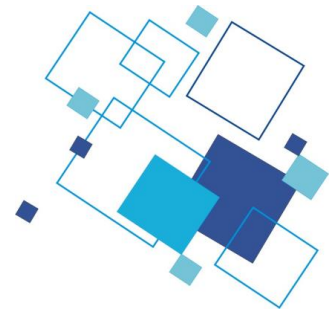


PROBE THERMOMETER CSTK-2



Catalogue card



DESCRIPTION

The probe thermometer CSTK-2 is designed to measure the temperature of air ventilation pipes or air conditioning systems. For measurements of liquid temperature, it is required to fix an additional cover for the measuring pipe. It cooperates with telemetric central station type CST-40A or CST-40C through analogue station CSA-1 and CSA-2. It may also cooperate with other devices provided that the terminal of the feeder-measurement line is compatible.

Thermometer CSTK-2 measures the temperature in the range of - 20 °C to + 50 °C or - 20 °C to + 100 °C (special version). It is power-supplied from an intrinsically safe source with voltage of 12 V. The measured and processed value of the temperature is sent to analogue output which generates a signal of 0.4 to 2V. Additionally, by modulating the analogue value, the output may also work in serial digital mode transmission. The sensor operation in digital mode enables sending (via the CSA-1 or CSA-2 station) the serial number of the sensor and other diagnostic information. The unit has an LCD display that displays the measured temperature.

Probe thermometer CSTK-2 is a device of M1 category and may thus be used in all underground mines with possible methane or coal dust explosion hazard. It can also be used by the industry.

BASIC TECHNICAL DATA

Probe thermometer CSTK-2	
Power supply	from 6 to 14,5 VDC (nominal 12 VDC)
Power consumption	max 4,6 mA
Output	One, analogue or digital.
Output operation modes	As analogue output 0.4-2 V for digital with unidirectional serial transmission.
Measurement range	from -20 °C to + 50°C or from -20 °C to + 100°C
Precision	± 1 °C
Resolution	± 0,1 °C
Measurement method	Continuous
Response time t_{90}	2min (air velocity: $v=2 \text{ m/s}$)
Working position	any (recommended - probe thermometer down)
Working temperature range	from -20 °C to + 50°C
Relative humidity range	from 15% to 95%
Dimensions	100 x 78 x 82 + L mm Lmin= 100 mm Lmax= 1000 mm, where L is the length of the probe
Weight	0,6 kg (for the probe length: L= 450mm)
Casing internal protection	IP-54
Analogue output (terminals 3,4)	$U_o = 5,4 \text{ V}$, $I_o = 27\text{mA}$ L_i , C_i – negligibly small
Power supply (terminals 1-2)	$U_i = 16 \text{ V}$ L_i , C_i – negligibly small

EXPLOSION-PROOF MARK

I M1 Ex ia I, II 2G Ex ia IIC T4

Certyfikat badania typu WE: TEST 13 ATEX 0023X

