

CT-90/PT

Temperature sensor



Measure the temperature
of the frames of machines
and devices working
in the underground
of mines

- has a brass frame with a threaded part (M12 x 1.5 mm) at one end, which is screwed into the frame in the place where temperature is measured
- the measuring element changes its resistance in a linear way due to the temperature of the frame
- signal from the sensor goes along the wires of the conductor which can have the ending in the form of a G4 W1F Hirschmann connection



CT-90/PT

Temperature sensor

TECHNICAL DATA

- ✓ Metrological parameters
 - maximum working temperature
- ✓ Electrical parameters
 - measuring signal

+5°C ÷ 100°C

$U_{20} = 580 \text{ mV} \pm 5\%$ for temp. 20°C przy $I_n = 0,5 \text{ mA}$
 $U_{100} = 370 \text{ mV} \pm 5\%$ for temp. 100°C przy $I_n = 0,5 \text{ mA}$

- admissible input parameters

$U_i = 6,3 \text{ VDC}$, $P_i = 25 \text{ mW}$

- ✓ Mechanical parameters
 - size
 - fixing
 - weight

41x30 mm

M12 x 1,5 mm hole depth 14 mm

250 g

- ✓ Working conditions
 - ambient temperature
 - relative humidity
 - sinusoidal vibrations
 - working position

+5°C ÷ +40°C

up to 100%

0 ... 55 Hz/amplitude ≤ 0,35 mm

any

- ✓ Casing protection degree

IP 54

Anti-explosion structure



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CE-type examination certificate

KDB04ATEX213 + supplement 3

Conformity mark