

12

RESISTANCE THERMOMETERS WITH THE WALL-MOUNT HOUSING

Sensor intended to measure the ambient temperature in closed rooms and open spaces, eg. in ventilation shafts, version 4 is designed for oil pipeline applications to measure the outdoor temperature.

- housing material: plastic ABS..operating temperature: -40 ÷ 80 °C
- measuring tip (version 2 and 3) pipe Ø 6
- steel ring for the pipe (VERSION 4)

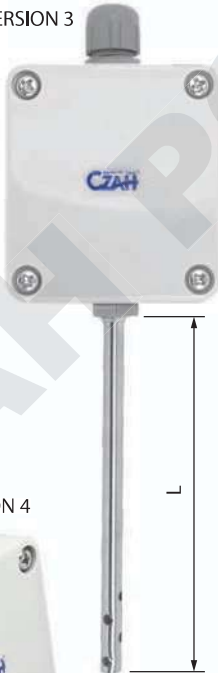
VERSION 1



VERSION 2



VERSION 3



VERSION 4



12	sensor type	accuracy class	number of wires	housing version	L or Ø	max. operating temperature
Pt100 Pt500 Pt1000						
Give accuracy class, table 1		Give number of wires, table 2		Give version of housing (see the photo) 1 – inside, 2 – outside, 3 – outside with the perforated tip, 4 – for pipeline applications		
Give length L for version 2 and 3 or pipe diameter Ø for version 4 [mm]						Give the estimated operating temperature

TAB. ORDERING CODE:

12	Pt100	A	3	2	40	40 °C
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12 – Pt100 – A – 3 – 2 – 40 – 40 °C

Temperature sensor model 12 (resistance thermometer with wall housing). Type Pt100, class A, 3-wire configuration. Housing version 2, length L=40 mm, operating temperature max. 40 °C

TAB. 1 RESISTORS TOLERANCE CLASS AND TEMPERATURE RANGE *)

TOLERANCE CLASS	FOR THIN FILM RESISTORS	TOLERANCE VALUE **)
A	-30 ÷ +80	± (0.15+0.002 t)
B	-50 ÷ +80	± (0.3+0.005 t)

*) to PN-EN60751:2009.

**) |t| = temperature in °C no matter what unit (absolute value)

TAB. 2 WIRING CONFIGURATION AND COLOUR MARKING

SINGLE (ONE RESISTOR)		
2-WIRE DESIGN	3-WIRE DESIGN	4-WIRE DESIGN