

Temperature Sensors for Measurement of Machinery and Device Parts TTJE-152, TTKE-152

Small sensor suitable for temperature measurement of movable or replaceable parts of machines and devices, especially injection moulds (extruders). The sensor has M4 hole that enables its installation on enclosure.

class 2

Specification

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K, J

-40÷250°C

Sheath

- material: steel 1.4541

- diameter d [mm]: 3
- length L[m]: 20÷200

Lead wire

- thermocouple solid wire ø0,2mm, fiberglass insulation
- length L_p [m]: 1 (standard)
- insulated hot junction SO

Other parameters acc. to requirements



Options

Temperature transmitter application

Temperature transmitter with standard 4÷20mA, 0÷10V output signals and with the HART or PROFIBUS communication protocols can be installed in the control cabinet.

Non-standard design

Immersion length, shape and material of the sheath and other parameters can be customized per client request.

Calibrations performed by Limatherm Sensor Sp. z o.o. are confirmed with the Calibration Certificate of the Accredited Laboratory for Temperature Measurements.







Tolerance for thermocouple classes acc. to PN-EN 60584

Thermocouple type	Class 1		Class 2	
	Range of application [°C]	Tolerance [°C]	Range of application [°C]	Tolerance [°C]
J	from -40 to +375	±1,5	from -40 to +333	±2,5
Fe-CuNi	from +375 to +750	±0,004 t	from +333 to +750	±0,0075 t
K	from -40 to +375	±1,5	from -40 to +333	±2,5
NiCr-NiAl	from +375 to +1000	±0,004 t	from +333 to +1200	±0,0075 t

|t|- absolute value of temperature

Connection schemes



ø3



Cable types and colours acc. to the norm



Product code

	Sensing element	Sensing element resistor				
	J	thermocouple Fe-CuNi /J/				
1	К	thermocouple NiCr-NiAl /K/				
	Sensing element	Sensing element				
	20	20mm				
	100	100mm				
2		other parameters acc. to requirements				
	Lead wire length	Lead wire length				
	1	1m				
3		other parameters acc. to requirements				



Ordering example:

TTJE-152–100–3 m sensor with thermocouple Fe-CuNi /J/, class 2, insulated hot junction, sheath length L=100mm, lead wire L_p =3m