

TEMPERATURE SENSOR

type 531, 532, 533, 534

SPECIFICATION

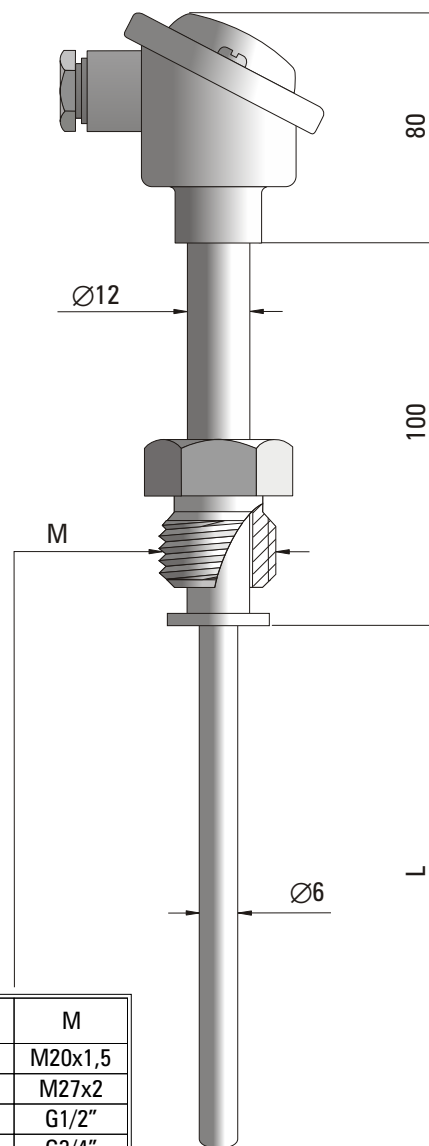
Temperature range	-40°C...+550°C (Pt100) -40°C...+800°C (J) -40°C...+1100°C (K) -40°C...+1250°C (N)
Measuring element	platinum resistor (Pt100) ⁽¹⁾ thermocouple Fe-CuNi (J) thermocouple NiCr-NiAl (K) thermocouple NiCrSi-NiSi (N)
Class of processing element	2 (B) ⁽²⁾
Conductor material	wire Cu/Ni (for Pt100)
Assembly	2, 3 or 4 wires (for Pt100)
Measuring junction	insulated ⁽²⁾
Sheath material Ø6	steel 1.4541 (Pt100) Inconel (J, K) Microbell (N)
Maximum operating pressure	1,6 MPa
Roughness of sheath surface	$R_a < 0,8 \mu m$ ⁽²⁾
Connection head type	B ⁽³⁾
Head operating temperature	-40°C ... +100°C
Hexagon nut	movable with external thread M20x1,5, M27x2, G1/2", G3/4" ⁽⁴⁾
Additional accessories	temperature transmitter thermowell for welding compensation cable

⁽¹⁾ Pt500, Pt1000, Ni100, Ni1000 on demand

⁽²⁾ Other parameters according to customer requirements

⁽³⁾ Connection head with protection class IP65 or acid resistant on demand

⁽⁴⁾ Other inch and metric threads on demand



Type	M
TP-531	M20x1,5
TP-532	M27x2
TP-533	G1/2"
TP-534	G3/4"

ORDERING CODE

	TP							
Sensor type 531, 532, 533, 534								
Measuring element Pt100, J, K or N								
Single (1) or double (2) measuring element								
Sensor length L=100, 200, 400, 600, 800 or 1000 mm ⁽²⁾								
Option with the head-mount transmitter T								

Example for order: TP-533Pt100-1-200 sensor with single Pt100 resistor with mobile nut, external thread G1/2" and length L= 200 mm.
TP-533Pt100-1-200-T; TCH-2120-Pt100 sensor with the head-mount transmitter type TCH-2120-Pt100.