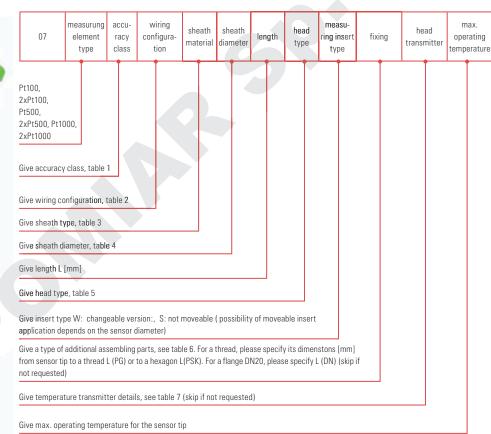


METAL SHEATHED RESISTANCE THERMOMETERS

- Probe sheaths are available in a wide range of steel grades to suit various operating environments.
- Depending of sensor type and a certain construction, RTD can work even up to 850 °C.
- With the appropriate probe sheath the sensor is suitable for oxidising, reducing, neutral and full sour gases atmosphere.
- · Can be produced with the changeable insert
- The sensors can be calibrated in the Accredited Laboratory



TAB. ORDERING CODE:											
07	Pt 100	А	4	321	10	345	В	W	G12 200(PSK)	-	250°C

07 - Pt100 - A - 4 - 321 - 10 - 345 - B - W - G12 200(PSK) - 250° C

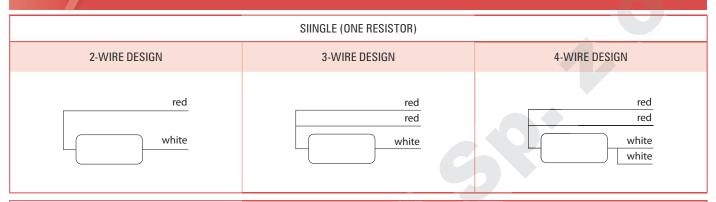
Temperatur sensor type 07 (resistance thermometer, metal sheathed), type Pt100, class A, 4-wire version, thermowell material: steel 321 (1H18N9T), thermowell diameter 10 mm, total length L=345 mm, length benaeth the hex fitting L (PSK) = 200 mm. Sensor with the head type B, the changeable measuring insert, welded fitting with thread G12. Max. operating temperature is 250 °C

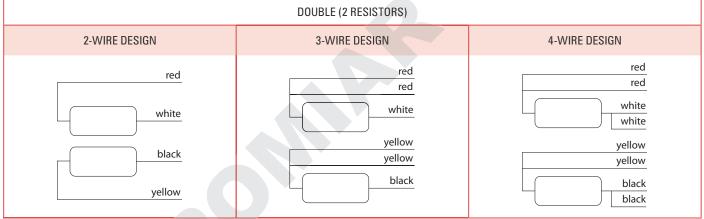
TAB. 1 TRANSMITTER TOLERANCE CLASS AND OPERATING TEMPERATURES *)

TOLERANCE CLASS	FOR WIRE WOUND RESISTORS	FOR THIN FILM RESISTORS	TOLERANCE VALUE **)
AA	-50 ÷ +250	0 ÷ +150	± (0.1+0.0017 t)
Α	-100 ÷ +450	-30 ÷ +300	± (0.15+0.002 t)
В	-196 ÷ +660	-50 ÷ +500	± (0.3+0.005 t)
С	-196 ÷ +660	-50 ÷ +600	± (0.6+0.01 t)

^{*)} to PN-EN60751:2009

TAB. 2 WIRING CONFIGURATION AND COLOUR MARKING





TAB. 3 STEEL SHEATH MATERIAL *)

ТҮРЕ	DESCRIPTION				
INC (Inconel 600; 2.4816)	Nickel-chrome-iron alloy characterized by great resistance to oxidising and high temperature				
310 (H25N2OS2; 1.4841)	Steel containing 25%Cr — 20%Ni. It is stainless and heat resistant				
304 (1.4301; 0H18N9)	Austentic stainles steel 18%Cr-8%Ni. Corrosion resistant (with no excess oxidation and no resistance lost) up to 80 800 °C. It is the most popular acidproof material, easy for metalworking and welding				
321 (1.4541; 1H18N9T)	Steel similar to grade 304 (18% Cr, 10% Ni) but with titanium as a stabilizer.				
316 (1.4401; H17N13M2T)	Steel similar to 304 (17% Cr, 9% Ni) with 3% of molybdenum. Because this steel grade is more corrosion resistant than 321 and 304, it is good for humid environment and for aplications in places threatened by corrosion (sea water).				

 $^{^{\}star}$) other steel types available on request

^{**)} I t I = temperature in $^{\circ}\text{C}$ no matter what unit (absolute value)

TAB. 4 DIAMETER

OUTER THERMOWELL DIAMETER [mm] *)
4,0
5,0
6,0
8,0
10,0
12,0
15,0

^{*)} other diameters available on request

TAB. 5 TERMINAL HEAD TYPES

	TERMINAL HEAD *) **)				
TYPE	В	NA	MA ***)		
	72 mm	73 mm	948,8 mm 52 mm		
TYPE	DA	G1	G2		
	90 mm	982 mm 87 mm	960 mm		

^{*)} other heads available on request

TAB. 6 FIXING

CODE	DESCRIPTION	MATERIAL	THREAD	DRAWING **)
M2015			M20x1.5	
G12	Fitting welded to the thermowell *)	steel	G1/2"	
G10	weii)		G1.0"	
G34			G3/4"	
UZ 22	Mounting bracket D=22 mm **)	Aluminium+steel alloy	n/d	
UZ25	Mounting bracket D=25 mm **)			
DN20	Flange welded to the thermowell **)	steel	n/d	

^{*)} other threads on request **) see table G, page 62 for more information

TAB. 7 TEMPERATURE TRANSMITTER

If the in-head signal tramsmitter is requested eg. signal 4...20 mA, please give all the necessary details, such as: type, temperature range. List of transmitters is available in the table E, page 60.

^{**)} for technical data see table A, page 50

^{***)} MA head possible only for thermowells with max. diameter 12 mm.