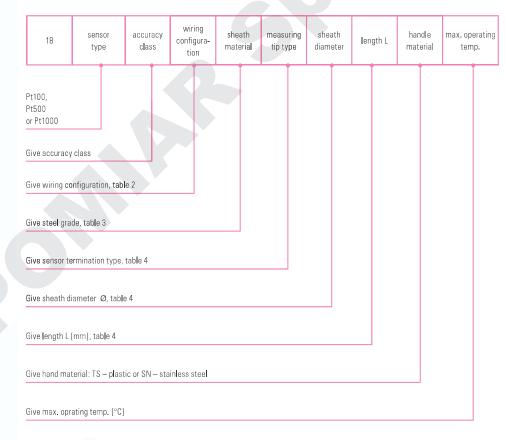


HAND HELD RESISTANCE THERMOMETERS

We offer a wide range of general purpose hand held RTDs. All sensors are supplied

with a a 1,5 metre coiled lead and a fixed miniature pin plug which makes them suitable for most of hand held indicators and other instrumentation by using extension cable and the appropriate connectors. Depending on the thermocouple length and its construction (eg. sheath type), operating range is up to 600 °C

- available types: Pt100, Pt500 lub Pt1000
- accuracy class A or B (other classes on request)
- 2,3 or 4-wire version
- mineral insulated cabl or steel protective tube available (table 4)
- several tips available: flat, needlelike etc.,
- ending with a 1,5 metre extension coiled lead and a miniature pin plug (table 4)
- plastic handle rated up to 120 °C or stainless steel handle.



TAB.	TAB. ORDERING CODE:								
18	Pt100	В	3	321	RS	5,0	150	SN	200°C

18 - Pt100 - B - 3 - 321 - RS - 5,0 - 150 - SN - 200 °C

Temp. sensor type 18 (hand held resistance thermometer), type Pt100, class B, 3-wire, sheath material: heat-proof steel 321 (1H18N9T), tube version with the conical tip, sheath diameter 5.0mm, length 150mm, plastic hand, max. operating temp. $200\,^{\circ}\text{C}$.

TAB.1 RESISTOR 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)

TAB. 2 WIRING CONFIGURATION AND COLOUR MARKING

	SIINGLE (ONE RESISTOR)			
2-WIRE DESIGN	3-WIRE DESIGN	4-WIRE DESIGN		
red	red red white	red red white white		

TAB. 3 STEEL SHEATH MATERIAL*)

ТҮРЕ	DESCRIPTION			
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 aplication in places threatened by corrosion (sea water).			

^{*)} other steel grades on request

TAB. 4 MEASURING TIP TYPES **)

TYPE	CONSTRUCTION	DIAMETER Ø	MAX. OPERATING TEMP.	DRAWING		
PK *	MI sensor with round tip	3.0 mm, 4.5 mm 6.0 mm ***)	depends on length and dia. max. 600 °C	L Ø		
PS	MI sensor with the conical tip	3.0 mm, 4.5 mm 6.0 mm	depends on length and dia. max. 600 °C	L Ø		
RK *	Tube, round tip	3.0 mm, 4.0 mm, 5.0 mm, 6.0 mm	Max. 400 °C	L Ø		
RS	Tube, conical tip	3.0 mm, 4.0 mm, 5.0 mm, 6.0 mm	Max. 400 °C	L Ø		
RI	Tube, needlelike tip	4.0 mm, 5.0 mm, 6.0 mm	Max. 400 °C	L		

^{*)} flat tip on request **) other tip on requst ***) other dia. on request, eg. Ø 1,5 mm and Ø 2,0 mm