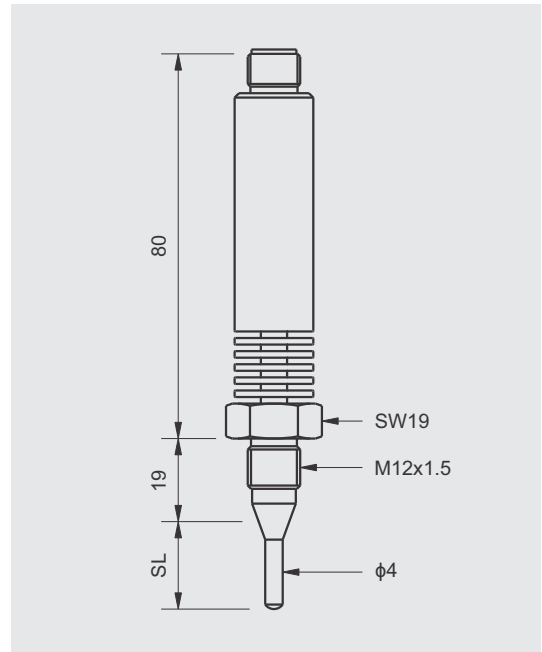


**COMPACT RTD SENSORS WITH TRANSMITTER**

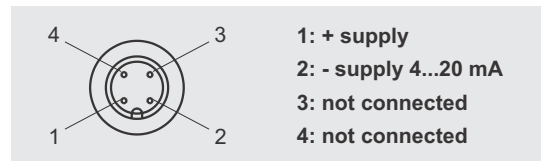
- Integrated 4-20mA transmitter
- Ranges from -50...200°C with cooling fins
- Supply : 8...35 VDC
- Accuracy : <math>\pm 0.1\%</math> of measurement range \*
- Accuracy of RTD (Pt-100) : Class A accuracy as standard, Class AA optional
- Standard ranges : 0...50/100/150/200°C
- For pipe lines from 15NB onwards
- AISI 316L (1.4404) body and wetted parts
- Surface finish :  $R_a \leq 0.51\mu m$  &  $\leq 0.8\mu m$  for wetted & non-wetted surfaces respectively.
- M12 connector with IP69K for electrical connections
- Variable insertion lengths from 20 mm onwards
- Extremely Short response times
- Highly accurate even with short insertion lengths
- Weld-in adaptors & mating sanitary fittings optional
- Tightening torque : 10 Nm
- Temperature range (ambient) : -40...+80°C
- Connecting cable : Optional, 5 meter long



**APPLICATIONS**

- Oil & Gas / Chemical
- Water & Waste water
- Energy

**ELECTRICAL CONNECTION**



**ACCURACY OF Pt100 AS PER IEC 60751**

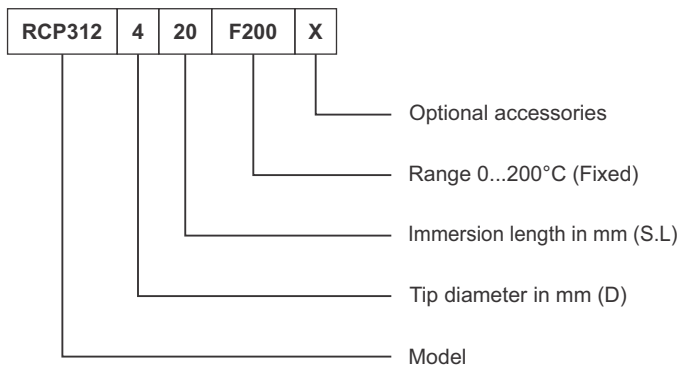
Pt100	A (1/2B)	AA (1/3B)
0°C (100Ω)	$\pm 0.15^\circ C / \pm 0.06\Omega$	$\pm 0.1^\circ C / \pm 0.04\Omega$
100°C (138.5Ω)	$\pm 0.35^\circ C / \pm 0.13\Omega$	$\pm 0.27^\circ C / \pm 0.1\Omega$

**RESPONSE TIME**

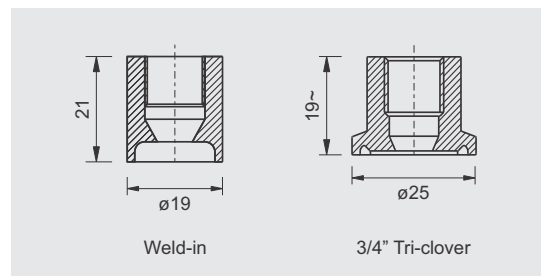
Tip Dia.	Imm. Length	T <sub>0.5</sub>	T <sub>0.9</sub>
4 mm	20 mm	2 s	4 s

T<sub>0.5</sub> and T<sub>0.9</sub> shows the response times at 50% and 90% of the step change. This data is measured by immersing the sensing bulb from ambient temperature to boiling water flowing at 0.4 m/sec. The result may vary according to the measuring environment and condition.

**HOW TO ORDER**



**OPTIONAL FITTING (SS316L)**



**NB :** The transmitter must be protected from temperatures above 85°C  
 \* The deviation of RTD sensor must be added to get the measuring accuracy of the transmitter