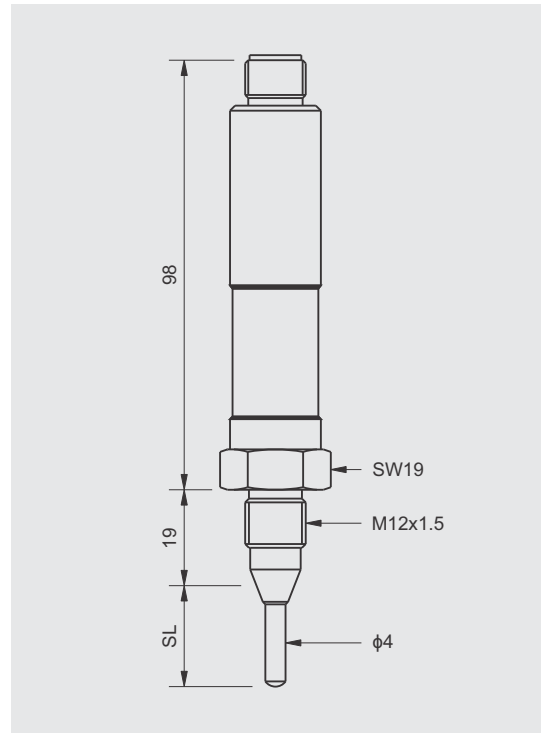


COMPACT RTD SENSORS WITH TRANSMITTER

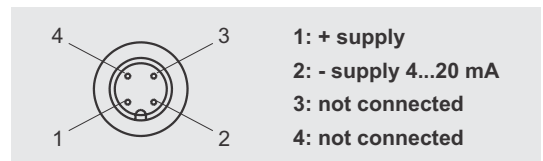
- Integrated 4-20mA transmitter
- Ranges from -50...200°C with cooling neck
- Supply : 8...35 VDC
- Accuracy : $\pm 0.1\%$ of measurement range *
- Accuracy of RTD (Pt-100) : Class A accuracy as standard, Class AA optional
- Standard ranges : 0...50/100/150/200°C
- For pipe lines from 15NB onwards
- AISI 316L (1.4404) body and wetted parts
- Surface finish : $Ra \leq 0.51\mu m$ & $\leq 0.8\mu m$ for wetted & non-wetted surfaces respectively.
- Threaded process connection
- 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

- Food & Beverage
- Laboratory & Medical
- Oil & Gas / Chemical
- Water & Waste water

ELECTRICAL CONNECTION



ACCURACY OF Pt100 AS PER IEC 60751

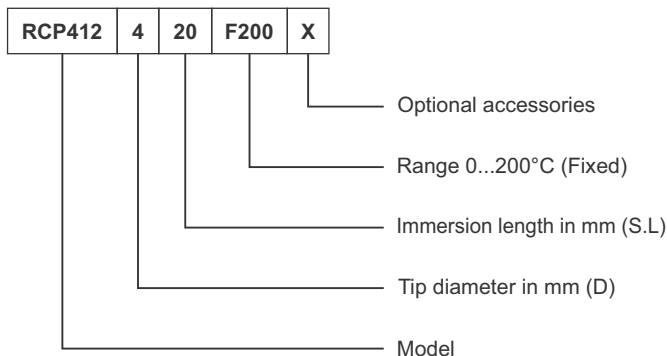
Pt100	A (%B)	AA (%B)
0°C (100Ω)	$\pm 0.15^\circ C / \pm 0.06\Omega$	$\pm 0.1^\circ C / \pm 0.04\Omega$
100°C (138.5Ω)	$\pm 0.35^\circ C / \pm 0.13\Omega$	$\pm 0.27^\circ C / \pm 0.1\Omega$

RESPONSE TIME

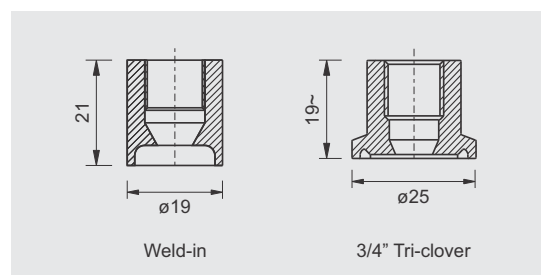
Tip Dia.	Imm. Length	T _{0.5}	T _{0.9}
4 mm	20 mm	2 s	4 s

T_{0.5} and T_{0.9} 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