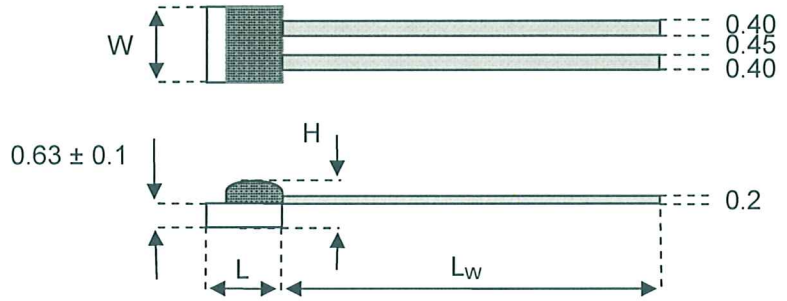
IST AG	Platinum thin film RTD		
	Sensor Type	Version	Date	Page
	P.202.3FW	1	27.10.09	1/1

Dimensions [mm]:



Standard configurations:

R_0: nominal resistance	class Y (1/3x B) -50°C to 150°C	class A -90°C to 300°C	class B -200°C to 300°C	class C (2x B) -200°C to 300°C
100 Ω, L_W=07 Order no.	**P0K1.202.3FW.Y.007** 010.02207	**P0K1.202.3FW.A.007** 010.02035	**P0K1.202.3FW.B.007** 010.01983	**P0K1.202.3FW.C.007** 010.01986
100 Ω, L_W=10 Order no.			**P0K1.202.3FW.B.010** 010.02292	**P0K1.202.3FW.C.010** 010.02294
100 Ω, L_W=15 Order no.		**P0K1.202.3FW.A.015** 010.02377	**P0K1.202.3FW.B.015** 010.02378	**P0K1.202.3FW.C.015** 010.02383
500 Ω, L_W=07 Order no.		**P0K5.202.3FW.A.007** 010.02389	**P0K5.202.3FW.B.007** 010.02282	**P0K5.202.3FW.C.007** 010.02390
500 Ω, L_W=015 Order no.		**P0K5.202.3FW.A.015** 010.02172	**P0K5.202.3FW.B.015** 010.02173	**P0K5.202.3FW.C.015** 010.02174
1'000 Ω, L_W=07 Order no.	**P1K0.202.3FW.Y.007** 010.02310	**P1K0.202.3FW.A.007** 010.02049	**P1K0.202.3FW.B.007** 010.01982	**P1K0.202.3FW.C.007** 010.01984

Temperature coefficient (TCR)	3850 ppm/K
Temperature range	-200°C to +300°C
Temperature dependence of resistance	according to IEC 60751: -200 to 0°C $R(T) = R_0 \cdot (1+A \cdot T+B \cdot T^2+C \cdot (T-100) \cdot T^3)$ 0 to 300°C $R(T) = R_0 \cdot (1+A \cdot T+B \cdot T^2)$ $A = 3.9083 \cdot 10^{-3} \cdot °C^{-1}$, $B = -5.775 \cdot 10^{-7} \cdot °C^{-2}$, $C = -4.183 \cdot 10^{-12} \cdot °C^{-4}$ R_0 = resistance value in Ohm at T=0°C T = temperature in accordance with ITS90
Dimensions [mm]	L= 2.0 ± 0.2 W= 2.0 ± 0.2 H= 1.2 ± 0.3 L_W= **7, 10 or 15** ± 1.0
Lead wires	Nickel flat wire, 0.4mm x 0.2mm, length = L_W ,lead spacing: 0.45mm
Self heating (v=0m/s, T=0°C) [mW/K]	Water: 36 air: 3.6
Response time [seconds]	Water (v=0.4m/s): $t_{0.5}$=0.12, $t_{0.9}$=0.42, air(v=1m/s): $t_{0.5}$=4, $t_{0.9}$=11
Long term stability	max. 0.04% after 1000 hrs at +300°C
Measuring current	100 Ω: typical 0.3 – 1.0mA 1'000 Ω: typical 0.1 – 0.5mA (self heating has to be considered)

Note: other nominal resistance, class and wire length on request

	Title	Name	Signature	Date
DRAWN	R&D	M. Rupflin		27.10.2009
APPROVED	R&D Manager	J. Polak		27.10.2009
QS	QS Manager	A. Polakova		27.10.2009

INNOVATIVE SENSOR TECHNOLOGY

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