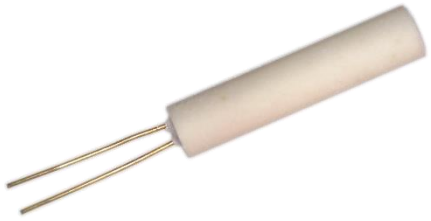
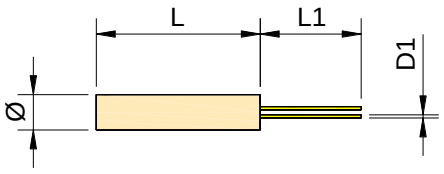
Platinum RTD Sensors with Ceramic Housing: CRX Series

The CRX series is characterized by ceramic housed sensors with a small, round design. They feature high long-term stability, excellent precision over a wide temperature range, and outstanding compatibility. These sensors are used in the white goods, HVAC, and energy generation industries, as well as in medical and industrial appliances and machinery. The operating temperature range of the CRX series is -200°C to +600°C. The CRX series is available in tolerance classes 1/5B (F0.06) and 1/10B (F0.03).

Type	**CRAG Series**		
Operating temperature range	**-200°C … +600°C**		
Tolerance validity range IEC 60751	1/10B	F0.03	-20°C … +200°C
	1/5B	F0.06	-20°C … +200°C
	1/3B	F 0.1	-30°C … +200°C
	A	F 0.15	-30°C … +300°C
	B	F 0.3	-70°C … +600°C
	2B	F 0.6	-70°C … +600°C
Resistance value	Pt100 also 2xPt100 Pt500 also 2xPt500 Pt1000 also 2x Pt100		
Measuring/maximum current	Pt100: 1 mA … 7 mA Pt500: 0.7 mA … 3 mA Pt1000: 0.1 mA … 1 mA		
Measuring point	2mm from the open end		
Temperature coefficient	3850 ppm/K (3810 , 3750 etc.)		
Long-term stability	max. R_0-Drift 0.05 %/Jahr		





RoHS & REACH COMPLIANT

Available models												
Temperature sensor				**Lead wire**			**Tolerance class**					
Type	**R_0/Ω**	**Ø**	**L**	**Material**	**D1**	**L1**	**1/10**	**1/5**	**1/3**	**A**	**B**	**2B**
CRX-2813-100	100	2.8	13	Nickel Au plated Ni Pt plated Ni Sn plated Ni Silver Isolated wire	0.25	8	○	○	●	●	●	●
CRX-2813-500	500	2.8	13		0.25	8	○	○	●	●	●	●
CRX-2813-1000	1000	2.8	13		0.25	8	○	○	●	●	●	●
CRX-2813-100	2x 100	2.8	13		0.25	8	○	○	●	●	●	●
CRX-2813-500	2x 500	2.8	13		0.25	8	○	○	●	●	●	●
CRX-2813-1000	2x 1000	2.8	13		0.25	8	○	○	●	●	●	●
CRX-4513-100	100	4.5	13		0.25	8	○	○	●	●	●	●
CRX-4513-500	500	4.5	13		0.25	8	○	○	●	●	●	●
CRX-4513-1000	1000	4.5	13		0.25	8	○	○	●	●	●	●
CRX-2x4513-100	2x 100	4.5	13		0.25	8	○	○	●	●	●	●
CRX-2x4513-500	2x 500	4.5	13		0.25	8	○	○	●	●	●	●
CRX-2x4513-1000	2x 1000	4.5	13		0.25	8	○	○	●	●	●	●

Customized versions on request, e.g. other wire lengths, insulation, dimensions,...

Dimensional tolerances: ΔØ ±0.15 / ΔL = ±0.2 / ΔD1 = ±0.05 / ΔL1 = ±1.0
Dimensions in mm

Self-heating coefficients and response times			
Type	Self-heating coefficient E in K/mW	Response times in seconds	
	Air (v = 1 m/s)	in water (v = 0.4 m/s)	in Air (v = 1 m/s)
		$t_{0.9}$	$t_{0.9}$
CRX-2813	0.2	3	40
CRX-4513	on request	on request	on request
CRX-2x4513	on request	on request	on request

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