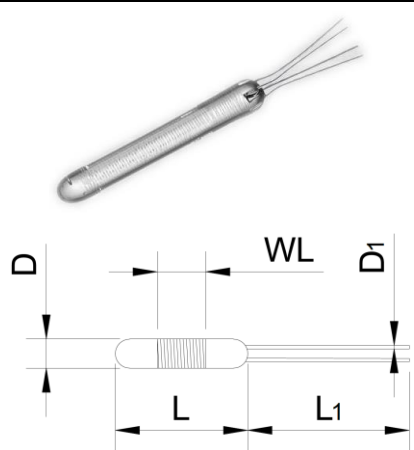


Platinum glass temperature sensors: CRGX series

Platinum glass temperature sensors are characterized by excellent shock resistance and chemical resistance. The lead wires, which are led out, also possess high tensile strength. Due to the hermetic sealing of the measuring coil, the CRGX series can be used without protection tube, allowing for short response times. The temperature sensors are designed for operating temperatures from -200°C to +450°C and exhibit no hysteresis effect.

Type	CRGX Series		
Operating temperature range	-200°C ... +450°C		
Tolerance validity range DIN EN 60751	1/3B (W 0.1)	-50°C ... +250°C	
	A (W 0.15)	-100°C ... +350°C	
	B (W 0.3)	-200°C ... +450°C	
Resistance value	Pt100		
Measuring/maximum current	Pt100: 1mA ... max. 10mA		
Measuring point	2mm from the open end		
Temperature coefficient	3850 ppm/K		
Long-term stability	max. R0-Drift 0.03 %/ year		



Available models									
Temperature sensor				Lead wire			Tolerance class		
Type	R ₀ /Ω	D	L	Material	D1	L1	1/3	A	B
CRX-0708	100	0.7	8	PtPd	0.15	10	○	●	●
CRX-1205	100	1.2	5	PtPd	0.15	10	○	●	●
CRGX-1207	100	1.2	7	Pt-Ni	0.20	10	●	●	●
CRGX-1805	100	1.8	5	Pt-Ni	0.25	10	●	●	●
CRGX-1110	100	1.1	10	Pt-Ni	0.25	10	●	●	●
CRGX-1310	100	1.3	10	Pt-Ni	0.25	10	●	●	●
CRGX-1810*	100	1.8	10	Pt-Ni	0.25	10	●	●	●
CRGX-2020*	100	2.0	20	Pt-Ni	0.25	10	●	●	●
CRGX-2025*	100	2.0	25	Pt-Ni	0.25	10	●	●	●
CRGX-2713*	100	2.7	13	Pt-Ni	0.25	10	●	●	●
CRGX-2716*	100	2.7	16	Pt-Ni	0.25	10	●	●	●
CRGX-3018*	100	3.0	18	Pt-Ni	0.25	10	●	●	●
CRGX-3025*	100	3.0	25	Pt-Ni	0.25	10	●	●	●
CRGX-3030*	100	3.0	30	Pt-Ni	0.25	10	●	●	●
CRGX-3038*	100	3.0	38	Pt-Ni	0.25	10	●	●	●
CRGX-4030*	100	4.0	30	Pt-Ni	0.25	10	●	●	●
CRGX-5008*	100	5.0	8	Pt-Ni	0.25	10	●	●	●
CRGX-5012*	100	5.0	12	Pt-Ni	0.25	10	●	●	●
CRGX-5030*	100	5.0	30	Pt-Ni	0.25	10	●	●	●
CRGX-5060*	100	5.0	60	Pt-Ni	0.25	10	●	●	●

*2xPt100 possible

Customized versions available upon request, such as different wire lengths, dimensions, etc.
Dimension tolerances in mm: ΔD = ±0.1 ... 0.2 / ΔL = ±0.2 / ΔD1 = ±0.01 / ΔL1 = ±2.0

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-0708	0.57	0.2	4
CRX-1205	0.43	0.3	6
CRGX-1207	0.38	0.4	7
CRGX-1805	0.36	0.8	30
CRGX-1110	0.38	0.4	7
CRGX-1310	0.38	0.5	12.5
CRGX-1810*	0.33	1.8	30
CRGX-2020*	0.25	2.0	38
CRGX-2025*	0.25	1.2	23
CRGX-2713*	0.23	1.6	45
CRGX-2716*	0.20	1.5	45
CRGX-3018*	0.17	1.8	34
CRGX-3025*	0.10	2.0	22.5
CRGX-3030*	0.20	1.8	35
CRGX-3038*	0.10	2.5	28
CRGX-4030*	0.11	2.0	28
CRGX-5008*	0.25	3.0	49
CRGX-5012*	0.20	3.7	60
CRGX-5030*	0.13	4.7	80
CRGX-5060*	0.05	4.5	87