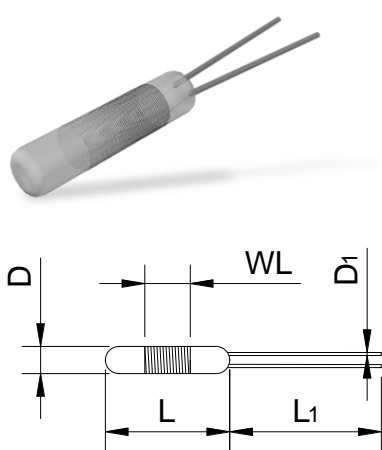



## Platinum-Glass-Wire-Wound RTDs: CRGX Series

Platinum-Glass-Wire-Wound RTDs are characterized by excellent vibration resistance. The lead-out leads also have a very high tensile strength. Thanks to the hermetic seal of the measuring winding, the CRGX series can also use unprotected / without a protection tube, resulting in short response times. The temperature sensors designed for operating temperatures from  $-200\text{ °C} \dots +400\text{ °C}$  and have no hysteresis effect.

<b>Type</b>	<b>CRGX Series</b>		
<b>Operating temperature range</b>	<b><math>-200\text{ °C} \dots +400\text{ °C}</math></b>		
<b>Temperature validity range DIN EN 60751</b>	1/3B (W 0.1)	$-0\text{ °C} \dots +150\text{ °C}$	
	A (W 0.15)	$-100\text{ °C} \dots +250\text{ °C}$	
	B (W 0.3)	$-196\text{ °C} \dots +400\text{ °C}$	
<b>Resistance value</b>	Pt100		
<b>Measuring/maximum current</b>	Pt100: 1 mA ... max. 10 mA		
<b>Measuring point</b>	2mm in front of the open wire end		
<b>Temperature coefficient</b>	3850 ppm/K		
<b>Long-term stability</b>	max. R0-Drift 0.03 %/year		

Available Models										
Temperature sensor				Lead wire			Winding length	Tolerance classes		
Type	$R_0/\Omega$	D	L	Material	D1	L1	WL	1/3B	A	B
CRGX-1805-100	100	1.8	5.0	Pt-Ni	0.20	10	3	•	•	•
CRGX-1310-100	100	1.3	10.0	Pt-Ni	0.20	10	6	•	•	•
CRGX-1810-100	100	1.8	10.0	Pt-Ni	0.20	10	6			•
CRGX-1812-100	100	1.8	12.0	Pt-Ni	0.20	10	3	•	•	•
CRGX-1315-100	100	1.3	15.0	Pt-Ni	0.20	10	6	•	•	•
CRGX-2815-2x100	100	2.8	15.0	Pt-Ni	0.25	10/12	7		•	•

Dimensional tolerances:  $\Delta D = +0.1/-0.3$  /  $\Delta L = \pm 0.1$  /  $\Delta D1 = \pm 0.02$  /  $\Delta L1 = \pm 2$   
Dimensions in mm

Self-heating coefficients and response times						
Type	Self-heating coefficient E in K/mW		Response times in seconds			
	Air		in water ( $v = 0.4\text{ m/s}$ )		in Air ( $v = 1\text{ m/s}$ )	
			$t_{0.5}$	$t_{0.9}$	$t_{0.5}$	$t_{0.9}$
CRGX-1805-100	0.36		0.14	0.35	8	30
CRGX-1310-100	0.39		0.40	1.30	4	12
CRGX-1810-100	0.36		0.14	0.35	8	30
CRGX-1812-100	0.36		0.14	0.35	8	30
CRGX-1315-100	0.39		0.40	1.30	4	12
CRGX-2815-2x100	0.20		0.30	1.00	12	45

Changes and errors excepted