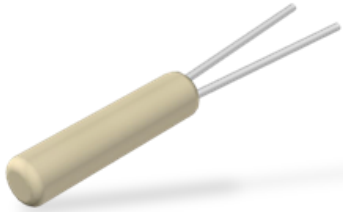



## Platinum-ceramic temperature sensors: CRU Series

CRU style platinum-ceramic temperature sensors cover by far the widest temperature range of all temperature sensors. They are the first choice for measuring elevated temperatures or for analytical and laboratory applications. Type CRU temperature sensors are designed for operating temperatures from -196°C ... +800°C.

<b>Type</b>	<b>CRU Series</b>		
<b>Operating temperature range</b>	<b>-196°C ... +850°C</b>		
<b>Temperature validity range DIN EN 60751</b>	1/3B (W 0.1)	-100°C ... +350°C	
	A (W 0.15)	-100°C ... +450°C	
	B (W 0.3)	-196°C ... +850°C	
<b>Resistance value</b>	Pt100		
<b>Measuring/maximum current</b>	Pt100: 1 mA		
<b>Measuring point</b>	8mm from sensor body		
<b>Temperature coefficient</b>	3850 ppm/K (others on request)		
<b>Long-term stability</b>	max. R0-Drift 0.03 %/year		

Available Models										
Temperature sensor				Temperature sensor				Temperature sensor		
Type	R <sub>0</sub> /Ω	D	L	Material	D1	L1	R <sub>L</sub> in mΩ/mm	1/3B	A	B
CRU-1515-100	100	1.5	15	PtAu	0.20	9.5	6	•	•	•
CRU-1525-100	100	1.5	25	PtAu	0.20	9.5	6	•	•	•
CRU-1715-2x100	2x100	1.7	15	PtAu	0.20	9.5	6	•	•	•
CRU-1725-2x100	2x100	1.7	25	PtAu	0.20	9.5	6	•	•	•

Dimensional tolerances in mm: ΔD = ±0.15 / ΔL = +2/-0 / ΔD1 = ±0.01 / ΔL1 = ±0.5

Self-heating coefficients and response times					
Type	Self-heating coefficient E in K/mW	Response times in seconds			
		in water (v = 0.4 m/s)		in Air (v = 3 m/s)	
		t <sub>0.5</sub>	t <sub>0.9</sub>	t <sub>0.5</sub>	t <sub>0.9</sub>
CRU-1515-100	0.08	0.2	0.4	5.0	15.7
CRU-1525-100	0.08	0.2	0.4	5.7	17.0
CRU-1715-2x100	O/R	O/R	O/R	O/R	O/R
CRU-1725-2x100	0.06	0.2	0.4	6.1	19.0