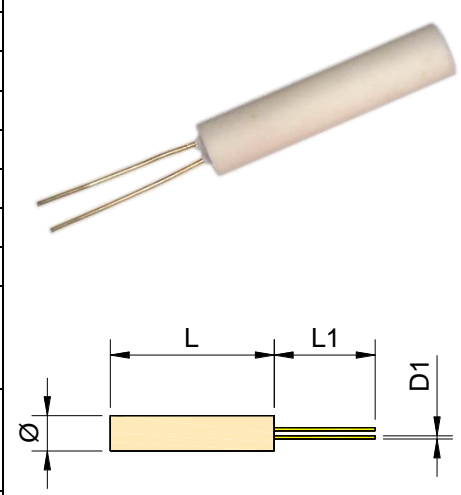


Platinum RTD Sensors with Ceramic Housing: CRX Series

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 | CRX 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 Pt1000 | | |
| 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
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| 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 | 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 | Au plated Ni | 0.25 | 8 | ○ | ○ | ● | ● | ● | ● |
| CRX-2813-500 | 2x 500 | 2.8 | 13 | Pt plated Ni | 0.25 | 8 | ○ | ○ | ● | ● | ● | ● |
| CRX-2813-1000 | 2x 1000 | 2.8 | 13 | 0.25 | 8 | ○ | ○ | ● | ● | ● | ● | |
| CRX-4513-100 | 100 | 4.5 | 13 | Sn plated Ni | 0.25 | 8 | ○ | ○ | ● | ● | ● | ● |
| CRX-4513-500 | 500 | 4.5 | 13 | Silver | 0.25 | 8 | ○ | ○ | ● | ● | ● | ● |
| CRX-4513-1000 | 1000 | 4.5 | 13 | 0.25 | 8 | ○ | ○ | ● | ● | ● | ● | |
| CRX-2x4513-100 | 2x 100 | 4.5 | 13 | Isolated wire | 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 |