

## Honeywell Sensing and Control

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## HEL-705-U-0-12-00 Discrete RTD Sensors

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Actual product appearance may vary.

HEL-700 Series temperature sensor, platinum RTD, ceramic case, leadwires

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### Product Specifications

Termination	Leadwires
Termination Material	28 Gauge, nickel-coated stranded copper, Teflon insulated
Availability	Global
Sensor Type	1000 Ohm platinum RTD
Temperature Coefficient	0.00375 Ohm/Ohm/°C
Package Type	Ceramic case
Temperature Sensing Range	-200 °C to 260 °C [-320 °F to 500 °F]
Base Resistance and Interchangeability	1000 Ohm ±2 Ohm at 0 °C
Linearity (% of Full Scale)	±0.1% typ. -40 °C to 125 °C [-40 °F to 257 °F]; ±2.0% max. -75 °C to 540 °C [-167 °F to 1004 °F]
Time Constant in Water at 0.914 m/s [3 ft/s]	<0.5 s
Stability	>0,25 °C per year; 0,05 °C per five years in occupied environment
Supply Voltage	Not applicable
Supply Current	1 mA typ., 2 mA max.
Self Heating	<15 mW/°C typ.
Insulation Resistance	50 MOhm at 50 Vdc, 25 °C [77 °F]
Series Name	HEL-700
Construction	Alumina case: epoxy potting (Teflon leads); ceramic potting (Fiberglass leads)
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers