



## HEL-705-U-1-12-00

**HEL-700 Series Temperature Sensor, Platinum RTD, Ceramic case leadwire**

### Features

- Linear resistance vs temperature
- Accurate and interchangeable
- Excellent stability
- Small for fast response
- Wide temperature range

### Typical Applications

- HVAC - room, duct and refrigerant temperature
- Electronic assemblies - thermal management, temperature compensation
- Process control - temperature regulation

### Description

HEL-700 Thin Film Platinum RTDs (Resistance Temperature Detectors) provide excellent linearity, accuracy, stability and interchangeability. Resistance changes linearly with temperature.



*Representative photograph, actual product appearance may vary.*

*Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.*



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<b>Product Specifications</b>	
<b>Termination</b>	Leadwires
<b>Availability</b>	Global
<b>Sensor Type</b>	1000 Ohm Platinum RTD
<b>Temperature Coefficient</b>	0.00375 Ohm /Ohm/°C
<b>Packaging Type</b>	Ceramic case
<b>Temperature Sensing Range</b>	-200 °C to 260 °C (-320 °F to 500 °F)
<b>Base Resistance and Interchangeability</b>	1000 ± 1 Ohm at 0 °C
<b>Linearity % of Full Scale</b>	± 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]
<b>Time Constant in water at 0.914 m/s [3 ft/s]</b>	< 0.5 s
<b>Stability</b>	> 0,25 °C Per year; 0,05 °C per five years in occupied environment
<b>Supply Voltage</b>	4.0 Vdc to 9.0 Vdc
<b>Supply Current (Recommended)</b>	1 mA typ., 2 mA max.
<b>Self Heating</b>	< 15 mW/°C typ.
<b>Insulation Resistance</b>	> 50 MOhms at 50 Vdc, 25 °C [77 °F]
<b>Termination Details</b>	28 gauge, Nickel coated stranded copper, Teflon insulated
<b>Series Name</b>	HEL-700 Series
<b>Construction</b>	Alumina case; epoxy potting ( Teflon leads); ceramic potting (Fiberglass leads)
<b>UNSPSC Code</b>	411121
<b>UNSPSC Commodity</b>	411121 Transducers

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** WARNING**

**PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

** WARNING**

**MISUSE OF DOCUMENTATION**

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**