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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.

HEL-775-A-U-0

HEL-775 Series Temperature Sensor, Platinum RTD, Ceramic SIP

Features

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

Typical Applications

- HVAC - room, duct and refrigerant equipment
- Instrument and probe assemblies
- Electronic assemblies - temperature compensation
- Process control - temperature regulation

Description

HEL-775 platinum RTDs are designed to measure temperatures from -55 °C to 150 °C [-67 °F to 302 °F] in printed circuit boards, temperature probes, or other lower temperature applications. Solderable leads in 0.050" or 0.100 in" spacing provide strong connections for wires or printed circuits.

The 1000 Ohm, 375 alpha version, provides 10X greater sensitivity and signal-to-noise. The 0.050 in lead space models are ideal for probes.

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Product Specifications

Termination	SIP
Availability	Global
Sensor Type	1000 Ohm Platinum RTD
Temperature Coefficient	0.00375 Ohm /Ohm/°C
Packaging Type	Ceramic case
Temperature Sensing Range	-55 °C to 150 °C (-67 °F to 302 °F)
Base Resistance and Interchangeability	1000 ± 2 Ohm at 0 °C
Linearity % of Full Scale	± 0.15%, Typ. -55 °C to +150 °C [-58 °F to 302 °F]
Time Constant in air at 3,5 m/s [10 ft/s]	< 10 s
Stability	0,05 °C per five years in occupied environment
Supply Voltage	4.0 Vdc to 9.0 Vdc
Supply Current (Recommended)	1 mA typ., 2 mA max.
Self Heating	< 9.7mW/°C typ.
Insulation Resistance	> 50 MOhms at 50 Vdc, 25 °C [77 °F]
Termination Details	Phosphor bronze with bright tin lead 60/40 plating
Series Name	HEL-775 Series
Construction	Alumina substrate, epoxy protection
UNSPSC Code	411121
UNSPSC Commodity	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.**