Honeywell

Thin Film Platinum RTDs

HRTS Series

Datasheet

Thin Film Platinum RTDs

The HRTS Series Thin Film Platinum RTDs (Resistance Temperature Detectors) are designed to measure temperatures from -70 °C to 260 °C [-94 °F to 500 °F]. These fully-assembled elements are ready to use in probe assemblies without the need for fragile splices to extension leads.

These products are manufactured using a thin layer of platinum deposited on an alumina substrate and are laser trimmed to a resistance interchangeability of a standard ±0.2% (±0.5 °C accuracy) or an optional ±0.1% (±0.3 °C accuracy). The sensor chip is then glassed, wired and potted to result in an alumina package with Teflon®-insulated lead wires.

Key Features

- Linear resistance vs temperature
- Interchangeable resistance
- Accurate
- Fast response
- Laser trimmed
- Ceramic case material
- TFE Teflon® lead wires
- Ready-to-use, fully-assembled elements

Potential Applications

Temperature sensing for monitoring, compensation and regulation in:

INDUSTRIAL

- HVAC equipment
- Instrument and probe assemblies
- Process control for temperature regulation
- Motor windings and bearings
- Battery packs
- Environmental chambers

MEDICAL

- Autoclaves

AEROSPACE AND DEFENSE

- Aircraft
- Space vehicles
- Satellites
- Rovers