beamex

Beamex IPRT-300 Pt100 sensor

The Beamex IPRT-300 is a robust general-purpose Pt100 temperature sensor designed for use as a reference sensor in industrial applications.

It measures temperatures up to 300 °C (572 °F) and offers an accuracy of ±0.04 °C (±0.072 °F) when utilized with the provided correction coefficients. Compliant with the IEC60751 Pt100 (385) standard, the sensor can be used even without the correction coefficients, achieving better than 1/3 DIN accuracy.

The IPRT-300 is equipped with a LEMO connector, ensuring compatibility with Beamex MC6 family calibrators and Beamex dry blocks. Each sensor is delivered with an accredited calibration certificate including the necessary coefficients as a standard feature.

MAIN FEATURES:

- A robust industrial temperature sensor for multiple purposes
- Temperature range −45 °C … +300 °C (−49 °F … 572 °F)
- Accuracy up to ±0.04 °C (±0.072 °F) with coefficients
- Provided with a 6 pin LEMO connector compatible with Beamex MC6 family calibrators and Beamex dry blocks
- Comes with an accredited calibration certificate with coefficients included

SPECIFICATIONS

FEATURE	SPECIFICATION
Structure	Pt100 4-wire connection wire wound in stainless steel casing
Temperature range	−45 °C … +300 °C (−49 °F … 572 °F)
Accuracy (with coefficients) [1]	±0.04 °C (±0.072 °F)
Accuracy (without coefficients) [1]	±(0.1 °C (0.18 °F) + 0.167 % RDG) RGD (1/3 IEC 60751 class B)
Dimensions	Ø 3 mm x 300 mm (0.12" x 11.81")
Cable	2.0 m (6.56") long Teflon/Silicon cable
Connector	6 Pin LEMO connector, compatible with Beamex MC6 family calibrators and dry blocks
Weight	~81 g (0.18 lb)
Calibration	Accredited calibration certificate included as standard, including the ITS-90 and Callendar van Dusen coefficients
Warranty	1 year

1) Excluding calibration uncertainty