

BEAMEX IPRT-300, INDUSTRIAL Pt100 REFERENCE SENSOR

The Beamex IPRT is a general-purpose Pt100 temperature sensor suitable for use as a reference sensor in industrial applications, providing temperature range up to 300 °C (572 °F).

PROPERTIES	
Description	Standard IEC 60751 Pt100 α385 sensor, 4-wire connection wire wound in stainless steel casing
Dimensions	Ø 3 mm (outer diameter) x 300 mm (length) (0.12" x 11.81")
Cable type	2.0 m (6.56') long teflon/silicon cable (Ø 3.9 mm, 0.15")
Connectors	6-pin LEMO connector compatible with MC6 family calibrators
Temp. range	-45 °C ... 300 °C (-49 °F ... 572 °F)
Accuracy (excluding calibration uncertainty)	±0.04 °C (0.072 °F) when used with sensor-specific CvD or ITS-90 coefficients 1/3 IEC 60751 class B, ±(0.1 °C / 0.18 °F + 0.167% RDG) when used without sensor-specific CvD or ITS-90 coefficients
Weight	~81 g (0.18 lb)



The sensor is delivered with accredited calibration certificate including sensor-specific CvD and ITS-90 coefficients.

The ITS-90 coefficients are saved into a built-in memory chip at the factory.

All items are delivered packed in a hard case.



NOTE:

When the sensor is connected to an MC6, MC6-T, or MC6-WS calibrator with firmware 5.20 or later, the calibrator can read the ITS-90 correction coefficients from the sensor's memory. When creating a User Sensor, you can choose to read the data stored in the sensor's memory, and the data will be automatically populated to the correct fields.

If you use the sensor with an MC6-Ex calibrator, or an MC6, MC6-T, or MC6-WS with firmware earlier than 5.20, the coefficients need to be entered manually. Please refer to the calibrator manual for instructions.



CAUTION:

Avoid dropping or bending the sensor in any way. This may cause internal damage to the sensor and impact its accuracy.



WARNING:

- DO NOT use this instrument to measure the temperature of any hazardous live component
- DO NOT use this instrument for any application other than temperature measurement
- Use of this instrument at high temperatures for extended periods can cause the handle to become hot and damage the transition junction
- Measurement equipment should only be used by trained personnel

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