



Texas Instruments Incorporated

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Tucson, Arizona 85711

December 20, 2016

Dear Valued Texas Instruments Customer,

Texas Instruments TMP112 thermal sensor product is manufactured using calibrated test equipment in accordance with TI's Quality Assurance Program.

Per TI's ISO 9001:2008 procedures, all calibrated test equipment requires a certificate of calibration traceable to a National Institute of Standards and Testing (NIST) control number. These NIST certificates are kept on file at TI. The calibration procedures ensure the product meets or exceeds the electrical, quality and reliability specifications as stated on the product datasheet or documents.

As an ISO 9001:2008 facility, TI has documented the calibration procedures for the thermal sensor products through internal documents listed below. Calibrated thermal sensor units ("golden" units) are created at the time of a new product release. These golden units are created and verified against a NIST certified Digital Thermometer/Platinum Resistance Probe pair in a liquid bath test fixture. The NIST certified Digital Thermometer/Platinum Resistance Probe pairs are calibrated on yearly cycle. Calibration Certificates are kept on file at TI. These golden units are then used during the production final test procedure to ensure temperature accuracy all units. Each unit in a lot is trimmed and tested to match the performance of at least one of these golden units within the datasheet specification limits.

Valid for TMP112 lots manufactured by TI:

Document Title:	Document Number:
Evaluation and Control of External Calibration Sources	QSS 012-001 Latest Revision
Internal Calibration and Preventive Maintenance System Requirements	QSS 012-002 Latest Revision
TI Temperature Sensor Calibration Procedure	TMP-CAL-001 Latest revision

NIST-Traceable Calibrated Equipment Pairs :	Equipment Model:	Calibration ID:		Equipment Model:	Calibration ID:
1. Platinum Resistance Probes	Hart Scientific # 5613	CALZ1798	2. Digital Thermometers	Hart Scientific # 1521	CALZ1797
	Fluke # 5628	3366		Fluke # 1502A	B5A966
	Fluke # 5628	3176		Fluke # 1502A	B4B728
	Fluke # 5628	2139		Fluke # 1502A	B4B729

Sincerely,  
Brent Rhoton  
Customer Quality Engineering  
Texas Instruments