

**Fluke Calibration, American Fork
 Primary Temperature Lab
 Report of Calibration**

Model: 5628	Description: Platinum Resistance Thermometer	Customer: METAS SA DE CV GUZMAN 49000 MX	
Serial No.: 2880	Manufacturer: Fluke Calibration		
As Found Condition: New	As Left Condition: Calibrated	Calibration Model: 1913-4-7	Calibration Instruction: AFC414 Revision 1

The above referenced Platinum Resistance Thermometer (PRT) was calibrated by a combination of fixed point and comparison methods over the temperature range(s) specified. The calibration methods used are based on recent publications pertaining to the ITS-90 as it applies to secondary PRT calibrations.



For temperatures above 0°C, this calibration was performed at the appropriate fixed points required for the ITS-90 temperature range identified in the "Calibration Model" location above. For temperatures below 0°C (if applicable), the calibration was performed by comparison against a calibrated SPRT. When the temperature range warrants and additional temperature points are available, measurements at supplementary temperatures are included to improve the quality of the calibration result. The calibration measurements were performed using a digital DC readout and DC reference resistors at one level of excitation current. The value of current used is shown in the calibration data section of this report.

During the course of calibration, the PRT resistance at the triple point of water (RTPW) is measured several times to provide the required calibration data and to verify the stability of the PRT. Additionally, the PRT is annealed after the first RTPW measurement to precondition it for calibration. The initial RTPW measurement shows the "As Found" condition of the PRT and the subsequent RTPW measurements (after annealing) indicate the stability of the PRT during calibration. The procedure places a limit on the amount of change permitted in the RTPW during calibration. Instruments that exceed this value will be given larger uncertainties commensurate with the observed performance and the "As Left" condition will be denoted as "Limited". The "As Found" RTPW, the dRTPW during calibration, the dRTPW limit, and the final RTPW are shown in the calibration data section of this report.

The following reference standards and measurement equipment were used in this calibration.

Instrument	Model	Serial No.	Recall Date
SPRT, Metal Sheath	5699	0444	08/15/2016
Precision Digital Thermometer	1595A	B0C034	12/30/2013
SPRT, Metal Sheath	5699	0653	12/14/2013
Thermometer, Super-Thermometer, 0.2 ppm	1595A	B08031	04/02/2014
Thermometer, Super-Thermometer, 0.2 ppm	1595A	B27094	02/22/2014

Environmental Conditions:
 Temperature: 23.36°C
 Humidity: 34.6% RH
 Calibration Date: 11/12/2013
 Calibration Due: Not Defined
 PO Number: RMA# 30321824
 Report Number: B3C05061
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