REPORT OF TEST FOR DIGITAL THERMOMETER

Customer Information:
WASHINGTON STATE PATROL
811 EAST ROANOKE
SEATTLE, WA 98102

Purchase order number: NOT AVAILABLE

Submitted by: WASHINGTON STATE PATROL

Date received for calibration: 01-10-2005

Instrument Description:

Serial No: 091796  Inscription: GUTH LABS INC.  Date calibrated: 01-13-2005  Scale: Celsius (Centigrade).

Digital Thermometer  Scale range: 29.5/38.5°C  Scale divisions: ±0.1°C  Immersion: PROBE

Model No: 4300  Accuracy Tolerance: ±/−0.025°C PER MANUFACTURER’S MANUAL

Results of Physical Examination:

The physical condition of this instrument was satisfactory and it appeared that all systems were functional.

Note: The activation of the on/off switch is inconsistent.

Calibration Procedure Used: ICL Procedure 04, which is drawn from ASTM E-77, E-220 and E-563

Results of Calibration:

<table>
<thead>
<tr>
<th>Test Temperature</th>
<th>'As Found' Reading</th>
<th>'As Left' Reading</th>
<th>Correction</th>
<th>Expanded Uncertainty (k = 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>33.000°C</td>
<td>33.01°C</td>
<td>33.01°C</td>
<td>-0.01°C</td>
<td>0.019°C</td>
</tr>
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</tbody>
</table>

No Adjustments were made to this instrument.

Our best measurement capabilities are: at Liquid Nitrogen (approximately -196°C), ±/−0.017°C; from -60 to 0°C, ±/−0.015°C; at 0°C, ±/−0.006°C; at 0.1°C (TPW), ±/−0.003°C; from 01 to 10°C, ±/−0.015°C; from 105 to 200°C, ±/−0.024°C; from 200 to 300°C, ±/−0.037°C; from 300 to 410°C, ±/−0.039°C; from 410 to 1000°C, ±/−1.2°C. These uncertainties have been calculated utilizing the methods elaborated in NIST Technical Note 1297 and the ANSI-NCSL document Z-540-2 entitled Guide to the Expression of Uncertainty in Measurement, commonly referred to as the "GUM". A coverage factor of 2 sigma (k = 2) has been applied to the standard uncertainty in order to express the expanded uncertainty at approximately a 95% confidence level.

The uncertainties presented above in the "Results" table may be larger than our system uncertainties, as the resolution of this instrument, estimated to be ±0.01°C, has been factored into the calculation.

The expanded uncertainties (k = 2) reported here do not contain estimates for (1) any effects that may be introduced by transportation of the instrument between ICL and the user's laboratory, (2) drift of the instrument, (3) hysteresis of the instrument, or (4) any measurement uncertainties introduced by the user.

Laboratory Environmental Conditions: Temperature: 23°C ±/−2°C Relative Humidity: Between 40% and 60%

All temperatures given in this report are those defined by the International Temperature Scale of 1990 (ITS-90)

Important Note: The correct operation of digital electronic thermometers is dependent on all components functioning properly. Correct temperature indication may be impeded by physical damage to the probe or cable assembly, contamination of electrical contacts with water, oil, or other material, or by less obvious causes such as low battery level or failure of internal components. Accordingly, ICL Calibration Laboratories, Inc. represents that the values indicated above were those observed during the performance of this test however cannot be responsible for inaccurate readings which may be experienced in future uses due to conditions which are beyond our control.
THIS CALIBRATION WAS PERFORMED BY: DEBORAH M. WEBER

THE CALIBRATION PERFORMED AND DOCUMENTED BY THIS REPORT OF TEST IS A LIMITED CALIBRATION AND ACCORDINGLY, LIMITATIONS OF USE ARE IMPOSED AS FOLLOWS:

THIS INSTRUMENT CAN BE USED WITH CONFIDENCE ONLY WITHIN THE RANGE BRACKETED BY THE TEST POINTS AND/OR IMMEDIATELY AROUND THE TEST POINTS.

TRACEABILITY INFORMATION

This calibration is traceable to NIST through an unbroken chain of comparisons. The reference standard is used to calibrate the transfer standard, which in turn is used to calibrate the client’s instrument. Each step in the chain is fully documented, and measurement uncertainty at each step has been calculated.

Our NIST primary reference thermometer from -196 to 420°C is a Hart Scientific model# 5682, 100 Ohm SPRT, serial no. 1035, calibrated by NIST on July 11, 2003. NIST GMP-11 recommends a 36 month calibration cycle for SPRTs. Transfer standards PRTs are calibrated against this reference standard semi-annually; ASTM liquid-in-glass transfer standards are calibrated annually.

Our primary reference thermometer for temperatures from 420 to 1000°C is a Hart Scientific Type 'S' thermocouple sensor, serial no. 9112, calibrated by Hart Scientific on January 13, 2003. This standard is on a 24 month calibration cycle.

<table>
<thead>
<tr>
<th>Test Point</th>
<th>Comparator</th>
<th>MTE#</th>
<th>Manufacturer</th>
<th>Transfer Standard</th>
<th>MTE#</th>
<th>Manufacturer</th>
<th>Next Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>33,000°C</td>
<td>7310 water bath</td>
<td>012</td>
<td>Polyscience</td>
<td>5614 PRT 876776</td>
<td>130</td>
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ICL CALIBRATION LABORATORIES, INC.

An ISO/IEC 17025 & ANSI/NCSL Z-540-1 accredited laboratory - American Association for Laboratory Accreditation Certificate #526.01

DATE CALIBRATED: 01-13-2005 RECALIBRATION DATE SPECIFIED BY CLIENT: January 13, 2006

NIST GMP-11 (Mar '03), 'Good Measurement Practice for Assignment and Adjustment of Calibration Intervals for Standards' states that, 'Temperature standards are dynamic with use. Shock, contamination and other factors can cause drift from accepted values'. Table 4 of GMP-11 recommends recalibration of liquid-in-glass thermometers, standard thermistors and PRTs at 12 month intervals. Liquid-in-glass thermometers used for 'Temperature Critical Parameters' should be recalibrated at 6 month intervals. NIST GMP-11 is available for download in Adobe .pdf format on our website at www.icllabs.com Follow the link for 'Downloads'.

The API 'Manual of Petroleum Measurement Standards', Chapter 7, June, 2001, specifies a 12 month recalibration interval for liquid-in-glass thermometers (see section 8.3) and for portable electronic thermometers (PETs). See section 8.2

The user should be aware that any number of factors may cause this instrument to drift out of calibration before the specified calibration interval has expired.

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This report applies only to the item calibrated.

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