



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Institute of Standards and Technology**  
Gaithersburg, Maryland 20899-

# REPORT OF CALIBRATION

Digital Thermometer  
Manufacturer: Shenzhen Typhur Tech Co., Ltd.  
Model Number HT03  
S/N 2

Submitted by  
Wilson Huang  
Shenzhen Typhur Technology Co., Ltd.  
Guangdong, China



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A Shenzhen Typhur Technology Co., Ltd. model HT03 unit, S/N 2, was calibrated by comparison with a standard platinum resistance thermometer (SPRT) 4386, in a stirred liquid calibration bath at 7 temperatures. The probe and SPRT were immersed to a depth of 7.5 cm. The results obtained are:

Bath Temperature °C	Digital Readout °C	U (k=2) m°C
-19.994	-20.3	2.3
0.000	0.2	1.8
40.002	40.1	2.4
60.001	59.9	2.4
79.999	80.0	2.4
99.999	100.1	4.8
119.996	120.1	4.8

The uncertainty of the digital readout of the thermometer is unknown and must be included by the user. For a discussion of the uncertainty, see NIST TN 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," by B.N. Taylor and C.E. Kuyatt, NIST TN 1411 "Reproducibility of the Temperature of the Ice Point in Routine Measurements," by B.W. Mangum and NISTIR 6225 "A New NIST Automated Calibration System for Industrial-Grade Platinum Resistance Thermometers," by G.F. Strouse, B.W. Mangum, C.D. Cross, and E.Y. Xu.

All Temperatures in this report are on the International Temperature Scale of 1990 (ITS-90). This temperature scale was adopted by the International Committee of Weights and Measures at its meeting in September 1989, and is described in "The International Temperature Scale of 1990", Metrologia **27**, No. 1, 3-10 (1990); Metrologia **27**, 107 (1990).

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