DATA SHEET: TH-40 Handheld Digital Temperature and Humidity Meter

High-Precision Portable Solution for Cleanroom Environmental Monitoring

1. PRODUCT OVERVIEW

The **TH-40** is a professional handheld digital instrument specifically developed to measure temperature and humidity in cleanrooms and controlled environments. Featuring high-precision sensors and a clear digital display, it provides reliable and instantaneous results. Its robust design and intuitive operation make it an ideal tool for pharmaceutical enterprises, quality supervision departments, and HVAC validation professionals.

2. KEY FEATURES

- **High-Definition Display:** Features a 2.6-inch IPS color screen (320x240 resolution) for superior data visualization.
- **Advanced Processing:** Powered by an ultra-low power 32-bit microprocessor based on the latest semiconductor nanotechnology.
- **Massive Data Storage:** Internal memory stores up to 16,000 samples; historical data can be reviewed intuitively on the screen.
- **Seamless Connectivity:** Stored measurement data can be downloaded to a PC via a standard USB interface for analysis.
- **Dual Temperature Units:** Allows users to easily toggle between Celsius (°C) and Fahrenheit (°F) scales.
- **Smart Printing Support:** Compatible with optional printers for selective hardcopy output of stored data.
- **Comprehensive Protection:** Integrated safeguards against over-voltage, over-charge, static discharge, and electromagnetic interference.
- **User-Friendly Interface:** Simplified English operation menu designed for maximum field utility.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	TH-40
Measurement Range	Temp: -20 to 60°C / Humidity: 0 to 100% RH
Resolution	Temp: 0.1°C / Humidity: 0.1% RH
Measurement Accuracy	Temp: ±0.3°C / Humidity: ±3% RH
Operating Environment	Temp: 0 to 50°C / Humidity: < 85% RH

Feature	Specification
Power Supply	3.7V Rechargeable Lithium Battery
Dimensions (LWH)	180 × 85 × 55 mm
Net Weight	0.34 kg

4. APPLICATIONS

- **Cleanroom Validation:** Verifying environmental conditions in sterile pharmaceutical and biotech zones.
- **Quality Control:** Routine temperature and humidity auditing in laboratories and storage facilities.
- **HVAC Maintenance:** Assessing the performance of air conditioning and ventilation systems.
- **Industrial Monitoring:** Ensuring stable climate conditions in electronics and food processing plants.

5. STANDARD ACCESSORIES

- TH-40 Main Unit
- USB Charging & Data Cable
- **Factory Calibration Report**
- User Manual & Warranty Card

Manufactured by:
Honri Airclean Technology (Suzhou) Co., Ltd.