



## HT16u Humidity-Temperature Smart Logger

The HT16u Humidity-Temperature Smart Logger is ideal for monitoring humidity and temperature of storage areas, clean rooms and buildings in Pharma and other industries. The HT16u is compact, easy to setup, accurate and most cost effective.

Ht16u is available in two versions, Temperature only and Temperature with Humidity combined, at the heart of the measurement and logging is the built-in RH & Temperature digital sensor chip-highly accurate with guaranteed long term stability. The real time measurements are displayed on a custom built LCD with 0.1 resolution and engineering units, Min/Max value of current batch is displayed on demand and resets on start of new batch, Battery and Alarm status is also displayed in run time, the unit can Log up to 400,000 records with time stamp.

The unit consumes extremely low power, operates on one Lithium Coin cell, is housed in an elegant compact wall mount enclosure and has two front panel keys for operation. The Humidity-Temperature Logger has a micro USB port for Logged data retrieval, device configuration and Auxiliary power operation where available.

SMART-HT is a windows based 21CFR Part 11 Compliant software, which allows HT16u configuration and viewing of logged data. Optional USB key is provided for License to export the data in a report.

### Features

- Compact RH/T Smart Logger with integral LCD display
- Max / Min readings with reset
- Logs up to 400,000 records with time stamp
- Hi/Lo Alarms status
- Selection of Temperature Unit Measurement in Celsius or Fahrenheit
- USB Port for Configuration, logged data retrieval and Aux Power
- Long Battery Life with status indication
- Operation by front keys
- SMART-HT software allows configuration and viewing of logged data
- Optional License to export the data in a report file

### Applications

- Pharmaceutical Industry
- Clean Rooms & Warehouses
- Food Industry
- Building Automation
- HVAC Systems
- Cold Storages
- Energy Management
- Laboratory & Medical Industries

# TECHNICAL SPECIFICATIONS

Input		Data Logging	
Sensor type	Internal (Factory Default) / External (optional)	Logging Start / Stop	Manual or pre-programmed with pause facility
	<b>Models</b>	Memory	64MB
Parameter	HT16u-T      HT16u-TRH	Record Fields	Date / Time / Temperature / Humidity / Alarm Status / Log Interval
Temperature	✓                      ✓	Total Records	Up to 400,000
Humidity	X                      ✓	Record Interval	User Settable from 1 minute to 1 day
<b>Temperature Measurement</b>		Data Retrieval	PC software via USB port using USB data cable
Measurement Range	0 to 60 °C / 32 to 140 °F	<b>Power Supply</b>	
Accuracy	±0.2°C typical, ±0.4°C max	Battery Type	1 x Coin cell (CR2450 Lithium)
Long-term drift	<0.03°C /year max	Battery Life	1 Year Approx. @+25°C and 15 min logging interval
<b>Humidity Measurement</b>		<b>Physical</b>	
Measurement Range	0 to 100% RH	Dimension in mm	80(H) x 80(W) x 25(D)
Accuracy	±2% RH typical, ±4% RH max	Mounting	Wall mount
Response Time	8 sec to achieve 63% of step change in Humidity	Weight Approx.	80 grams approx.
Long-term drift	<0.25% RH/Year typical, 0.5%RH/year max	Enclosure material	Self-extinguishing ABS
	<b>Display &amp; Keys</b>	Enclosure Protection	IP20
Display	Large LCD, 7 segments with Engineering Units	<b>Environmental</b>	
Other Indications	Battery Status, Max/Min & Alarm status	Operating Temperature	0 to 60°C
Keys	Two for operation	Storage Temperature	-10° to 70°C
		Humidity	0% to 100% RH (Non-Condensing)

## ORDERING CODE

Model	Parameter	Sensor Type
HT16u	X	X
	T      Temperature	I      Integral Sensor
	TRH      Temperature & Humidity	E      External Sensor Probe*

### Note:

\*External probe comes with Sintered SS Filter (Cable Length 2 Meters)

### Standard Accessory

Wall Mounting SS Plate & Screws (70mm x 30mm)
BTA-CR2450 Battery (Lithium Coin cell - CR2450)

### Optional Accessory (extra cost)

mCB-USB-UA-UCB-1.5	USB data Cable for data downloading & programming
SMART-HT	USB Dongle Key for License to export the data in a report file