



**EMBUILT
TECHNOLOGIES**

LTH-01

Temperature & Humidity Logger



FEATURES

| | |
|--|---|
| Temperature Measuring Range | -10 degree C to +110 degree C |
| Humidity Measuring Range | 0% RH to 100% RH |
| Software Interface | Software Interface By USB Cable |
| Digital Reading With Decimal Two Places | Seven Segment Display |
| Temp. & Humidity Range Setting | Set Lower And Higher Limits For Indication |
| Error Monitoring | Sensor Break / Open |
| Data Management | Embedded Memory, Data Share via USB |
| Temperature Accuracy | ± 0.5 Degree C |
| Humidity Accuracy | ± 3% RH |
| Limit Range Settings | Lower And Upper Limit Set |
| Pass / Fail Indication | As Set Limits Of Temp. & Humidity |
| Alarm Indication | Parameter Out Of Limit |
| Data Storage (Optional) | Up-to 32000 Data |

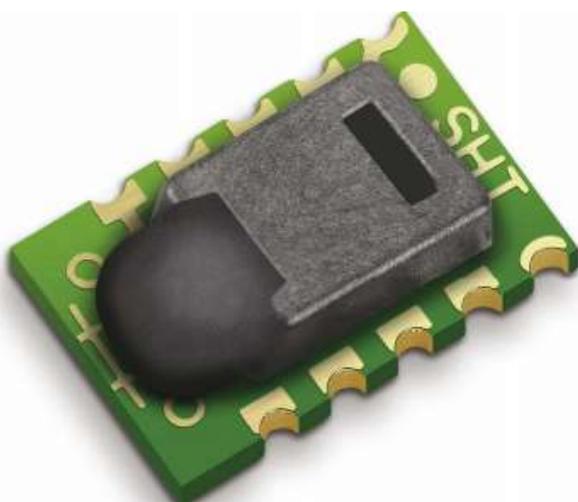
Technical Specification

| | |
|--------------------------------|--|
| Auxiliary Power | 180 – 250V, 50Hz |
| Temperature Range | -10 to +110 Degree C |
| Humidity Range | 0% to 100% RH |
| Power Consumption | Less Than 5 Watt |
| Accuracy | ± 0.5 Degree C, ±3% RH |
| Interfacing | Software by USB |
| Regulation | Floating Decimal Point |
| Battery Mode (Optional) | To Record and shows Data When AC Power Disconnected |

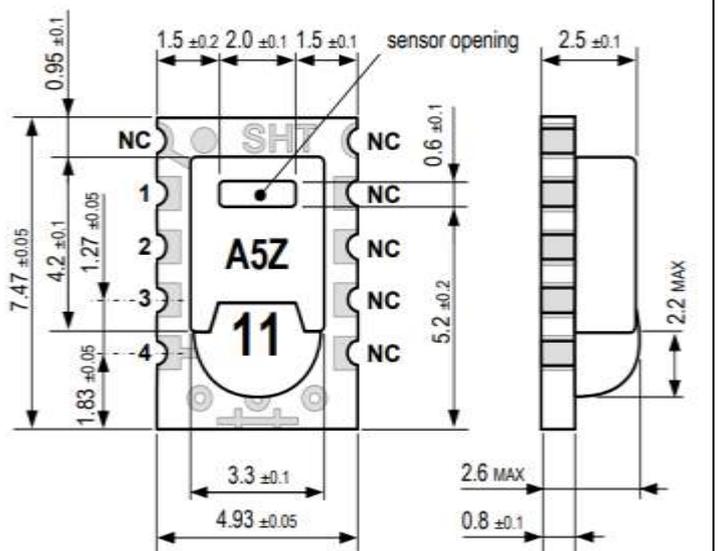
TEMPERATURE & HUMIDITY SENSOR (T-H Sensor)

It basically Sense the Temperature and Humidity and provide the signal to the main unit for Metering. The Basic Features for the T-H Sensor is as:

- Temperature measurement range: -55°C to +125°C.
- Humidity measurement range: 0% - 100% RH
- Operating voltage: 5 volt DC
- ±0.5°C accuracy from -10°C to +85°C
- Enclosure Size: 70x40x23
- 4 wire output, Portable with higher sensitive Temperature and Humidity Sensor.
- Response Time Approx- 30 Sec
- Start up Time Approx – 30 Sec Electrical



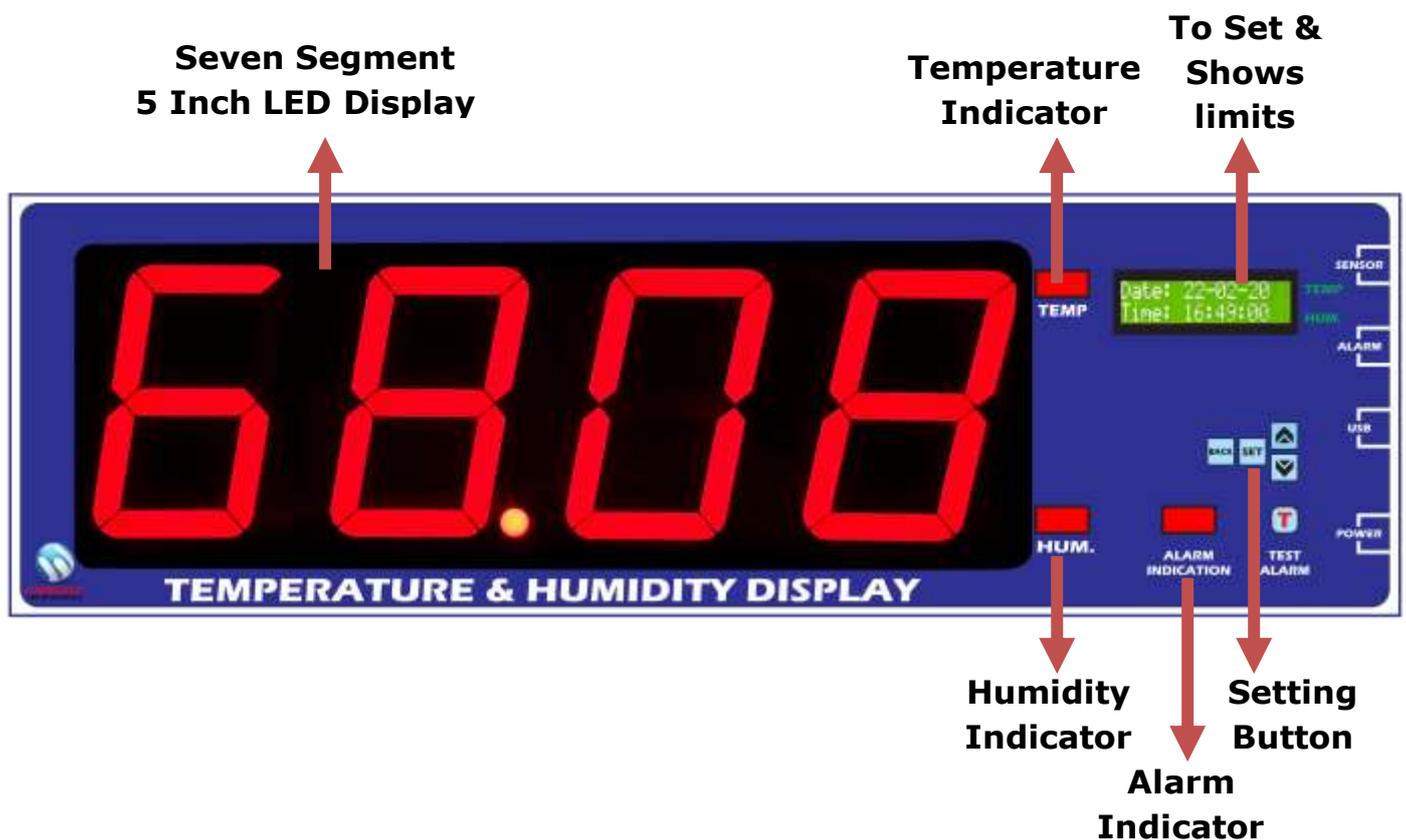
SHT 11 SENSOR



DISPLAY

Display unit is a 4 numeric LED Display which displays the Temperature & Humidity which sense by the TH-Sensor. The basic Features for Display is as:

- 5 inch 4 numeric LED display
- 4 inch digit height (101.6 mm)
- Width x height : 460 X 160 mm
- Low current Operation
- High Light Output
- AC Power Supply: 230V \pm 20%, 50Hz



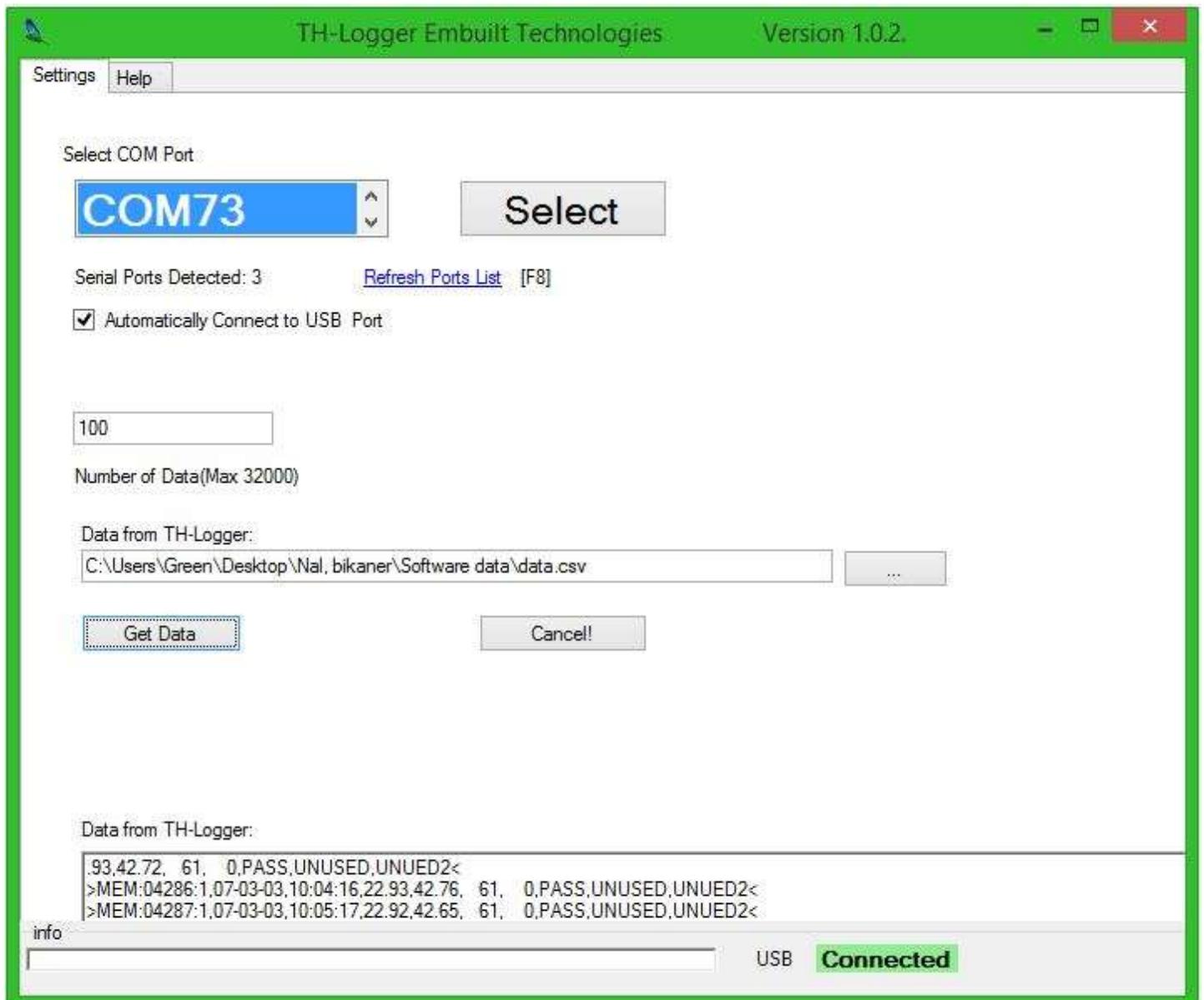
Temperature & Humidity Display

Display Customization (Optional)

- 4 button keypad to set limits of temperature & humidity
- Test alarm button to check alarm condition
- Battery mode facility to record all data when AC power is disconnected (optional)
- LCD display to show the present date-time and all set limits
- In battery mode, temp. & humidity show in date-time display (optional)
- Alarm (Hooter) unit with LED indication of power and enable/disable state

SOFTWARE

The display unit features a USB cable to interface with the software and share all measured data to show on the computer. The software has the facility to connect or disconnect with the display unit, display all temperature and humidity data on the display page, and save all data directly into the computer. Users can save 1 second, 5 seconds, 15 seconds and as you like to set time limits.



Saved Data

Data saved in .csv file with Date & Time

| | A | B | C | D | E | F | G | H | I | J | K |
|----|---------|----------|----------|----------|----------|------|------|--------|--------|----------|---|
| 1 | Version | Date | Time | Temperat | Humidity | Pass | Fail | STATUS | Unused | Unused-2 | |
| 77 | 1 | 16-03-20 | 11:08:36 | 23.2 | 45.57 | 61 | 0 | PASS | UNUSED | UNUED2 | |
| 78 | 1 | 16-03-20 | 11:09:37 | 26.42 | 99.99 | 21 | 40 | FAIL | UNUSED | UNUED2 | |
| 79 | 1 | 16-03-20 | 11:11:39 | 24.51 | 80.56 | 0 | 61 | FAIL | UNUSED | UNUED2 | |
| 80 | 1 | 16-03-20 | 11:12:40 | 24.08 | 66.39 | 0 | 61 | FAIL | UNUSED | UNUED2 | |
| 81 | 1 | 16-03-20 | 11:13:41 | 24.16 | 83.28 | 26 | 35 | FAIL | UNUSED | UNUED2 | |
| 82 | 1 | 16-03-20 | 11:14:42 | 24.02 | 65.15 | 0 | 61 | FAIL | UNUSED | UNUED2 | |
| 83 | 1 | 16-03-20 | 11:15:43 | 23.91 | 56.67 | 29 | 32 | PASS | UNUSED | UNUED2 | |
| 84 | 1 | 16-03-20 | 11:16:44 | 23.86 | 52.59 | 61 | 0 | PASS | UNUSED | UNUED2 | |
| 85 | 1 | 16-03-20 | 11:17:45 | 23.83 | 48.73 | 61 | 0 | PASS | UNUSED | UNUED2 | |
| 86 | 1 | 16-03-20 | 11:18:46 | 23.84 | 47.12 | 61 | 0 | PASS | UNUSED | UNUED2 | |
| 87 | 1 | 16-03-20 | 11:19:47 | 23.86 | 46.17 | 61 | 0 | PASS | UNUSED | UNUED2 | |
| 88 | 1 | 16-03-20 | 11:21:49 | 23.75 | 44.7 | 61 | 0 | PASS | UNUSED | UNUED2 | |
| 89 | 1 | 16-03-20 | 11:22:50 | 23.66 | 44.96 | 61 | 0 | PASS | UNUSED | UNUED2 | |
| 90 | 1 | 16-03-20 | 11:23:51 | 23.68 | 44.37 | 61 | 0 | PASS | UNUSED | UNUED2 | |
| 91 | | | | | | | | | | | |
| 92 | | | | | | | | | | | |

Developed & Manufactured By :



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