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HT16Ew

Wireless RH/T Transmitter

Measure. Log. Display. Transmit

Model HT16Ew is state of the art wireless Transmitter to measure, display and transmit Relative Humidity and Temperature with high accuracy, the data is streamed wirelessly over Zigbee network at set interval. Even if the user wishes to push the data in between of set interval than it can be done by pressing the front key. The unit has low power consumption, operates on 2 pair of AA Lithium cells and is housed in an elegant wall mount IP62 enclosure.

At the heart of the Transmitter is the built-in RH & Temperature sensor chip, highly accurate with excellent long term stability, the measurements are displayed on a custom built LCD display with engineering units and 0.1 resolution, besides the real time values the unit also captures and displays statistical Min and Max values.

The custom built display of HT16Ew indicates the RH and Temperature values along with Battery status & wireless signal strength.

The Data transmission is based on ZigBee protocol, the preferred protocol for low power devices, and the transmission frequency is on the license free 2.4GHz ISM band, the transmission range is 90 meters typically without line of sight the data is pushed by the individual Transmitters to the logger/PC at set interval, Routers/Repeaters can be used to increase the network range.

HT16Ew Transmitter communicates with Receiver over Zigbee protocol. If communication breaks between Transmitter and Receiver than HT16Ew will log the data in its internal memory and when communication re-establishes between both devices, HT16Ew will send all data to Receiver.

Model HT16Ew is typically a battery operated low powered device giving battery life of close to 2 years, as it transmits the data at 1min interval with exception based protocol. Also the configuration port gives the option of using power supply via USB adaptor wherever mains power is available

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Features

- Water and dust resistance IP62 based design
- ZigBee wireless RH/T transmitter with Integral display
- Operates License free ISM Band of 2.4GHz
- Low Power Battery consumption leading to long Battery life
- Max and Min readings
- Hi/Lo Alarms
- Battery Status and Signal strength indication
- Configuration port for Mains Adaptor, Zigbee configuration & log data retrieval
- Custom built LCD display
- Can operate both in Star & Mesh network
- Configurable by front keypad Supported by Masibus
 Wireless Logger and PC software
- Auto back filling feature for data assurance

Applications

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

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TECHNICAL SPECIFICATIONS

Sensors: Internal (Factory Default) / External (on request)

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Measurement Range -10° to 60°C Resolution

±0.3°C Typical, ±0.4°C Max <0.03°C /year Accuracy Long-term drift

Humidity

Measurement Range 0 to 100% RH

Resolution

Accuracy @ 25°C ±2% RH (0-80%), ±4% RH (80-100%)

Response Time 8 Sec to achieve 63% of step change in Humidity

<0.25% RH/year Long-term drift

Wireless

ISM 2.4 GHz Frequency Band

ZigBee (IEEE 802.15.4 standard) Protocol

Transmit Power 63 mW (+18 dBm) Receiver Sensitivity -101 dBm

Line of sight Range (outdoors) 3000 m typically (without any obstacles)

Indoor Range 90 m typically

Connectivity Up to 12 such Transmitters can be connected to one receiver *(Excluding repeaters)

Antenna Dipole pluggable external

Data Logging

Memory 64 Mbits

Date/ Time/ Temperature/ Humidity/ Alarms Status/ Battery Status/ RF Signal Strength Record Type

Up to 400000 Total Records

User Settable from every 1 Min to 2880 Min (upto 48 hours) Record Transmit Interval

General

Display LCD, 7 segments with symbols

Menu, Up & Down

Keys Indication Symbols Battery Status, RF signal strength, Max/Min, Engineering Units

Alarm Set points Hi/Lo for Temperature & Humidity

Available at receiver end

Local alarm facility Mains Power Adapter, Zigbee configuration & log data retrieval Configuration Port

4 X AA Lithium Cells

24 months @1Min Transmit interval (standard exception band ± 0.5°C & ± 2% RH)

24 months @15Min Transmit interval

IP62 Self-extinguishing ASA UL 94 VO

White Grey

Mounting Wall mount (Mounting bracket) Size (in mm)

90(H) x 130(W) x 25(D)

Approx 300g

Weight Environment

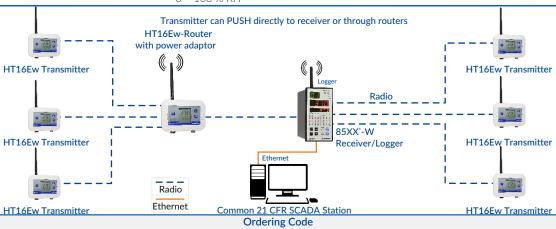
Battery Type

Enclosure type Color

Battery Life (with exception based protocol)

Battery Life (without exception based protocol)

Operating Temperature -10° to 60°C Storage Temperature -10° to 70°C Humidity 0 - 100 % RH



Model **Input Types** HT16Fw Internal Sensor Chip External Sensor Probe F R Router

Accessories On request

1. 5V, >1A Power Adopter

2. HT16Ew configuration/Power cable

Note 1: External probe Comes with Sintered SS Filter (Cable Length 2 Meters)

Note 2: HT16Ew comes with Standard Wall Mounting Bracket & Screws (65mm x 45mm)

#Masibus model CDU & 85XX'-W will be used as receiver cum data logger please refer its catalogue for more details

E-mail: sales@masibus.com, Web: www.masibus.com