

T5h Humidity Tag



- Wi-Fi based solution for temperature and humidity monitoring
- Remotely collect, record, and analyse condition, location, and status information in real time
- Offline Condition Monitoring

The T5h humidity tag is a key component of the Extronics Advance condition monitoring solution. The T5h Tag is a Wi-Fi and active RFID device that leverages the wireless network infrastructure to report changes in humidity, using an internal humidity sensor. The tag can be attached to stationary or mobile equipment that requires constant humidity and temperature monitoring such as refrigerators, freezers, and storage.

The ability to monitor accurately an asset's condition in addition to other location and status information enables you to keep accurate auditing records, avoid wastage, and increase efficiency.

Humidity sensing

The T5h tag has an on-board humidity sensor. The tag can be configured to provide constant humidity readings and send them periodically.

Temperature sensing

The T5h tag also has an on-board temperature sensor. This too can be configured to provide constant temperature readings.

Tag Management

The tags can be configured, programmed and activated via a wireless interface. This is done with the help of the Tag Manager application and a Tag Activator, part of the Hardware Manager Kit.

Flexible mounting and usage options

The tag's small size and weight, and convenient form factor, allow mounting on variety of assets. A variety of mounting accessories are available.

Offline condition monitoring

The T5h tag can record the last eight temperature readings and deliver them to MobileView at pre-defined intervals. This feature prevents data loss in case of an outage.

Standard Wi-Fi networks

The tag data is received and processed via standard Wi-Fi access points, keeping infrastructure costs low and installation simple.

Long battery life

The T5h Tag has a replaceable battery that provides up to 4 years battery life. The tags report their battery level, so timely replacements can be made with minimum downtime.

Rugged performance

T5 tags are designed to work in harsh industrial environments and weather conditions. It is water-resistant and can withstand significant physical shocks.



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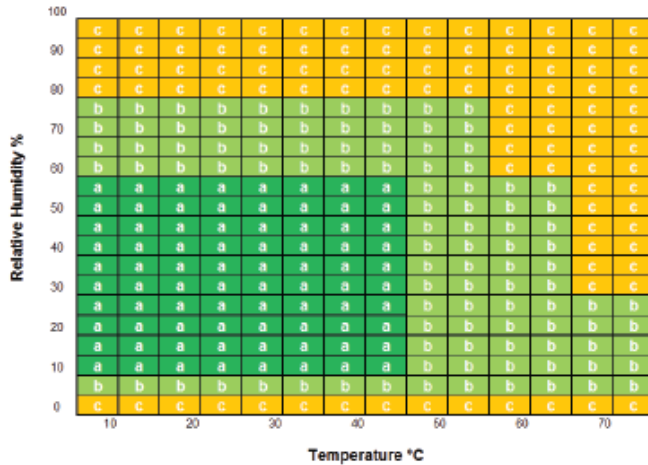
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Humidity sensor operating range

The humidity sensors deliver optimum performance within the recommend normal range shown below. Long-term exposure to conditions outside normal range, particularly humidity levels above 80% RH, may temporarily offset the accuracy of the reported humidity level. After returning the tag to the normal range, the accuracy will gradually increase. Prolonged exposure to extreme conditions may accelerate aging of the sensor.



a Most accurate
b Long-term exposure may degrade accu
c Accuracy degraded up to 3%

Figure 1: Humidity Sensor Operating Range

Mounting options



Strapping holes - pole



Tag attached to pole



Specification

Outdoor range	Up to 200m (650 feet)
Indoor range	Up to 80m (260 feet)
Wi-Fi radio	802.11 compliant (2.4 Ghz) Clear channel sensing avoids interference with wireless networks.
LF receiver	Low Frequency receiver for chokepoint detection (125kHz)
Transmission power	Up to +19 dBm ~81mW
Dimensions	62 x 40 x 17 mm (2.4 x 1.6 x 0.7 inch)
Weight	37g (1.3oz)
Battery	3.6V ½ AA Lithium battery, up to 4 years battery life
Ingress protection	IP54
Sensor range	-30°C to +75°C (-22°F to +167°F)
Radio	EN300-328, EN300-330, EN301-489
Safety	CE and c TUVus (EN60950)
SKU	TAG 5200

Ordering information

Description

T5h Humidity & Temperature Tag with mounting cradle

Order code

TAG-5200

Accessories:

T5h Tag Mounting Cradle for screw or strap mounting (50-Pack)	TAC-250
T5h Tag Mounting Cradle for screw or strap mounting (50-Pack), red colour	TAC-250-R
Screw kit for mounting cradle	TAC-065
300mm long Velcro Strap (20-Pack)	TAC-035
110mm long Velcro Strap (20-Pack)	TAC-036
Velcro Attachment Kit Pair (50-Pack). Includes both sides of Velcro	TAC-030
Adhesive Tape Attachment Kit	TAC-031
T5h Tag battery (25-Pack)	TAC-230
T5h Tag battery (50-Pack)	TAC-231
Hardware Manager Kit	HWM-1000



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