

T5m-v Multi Sensor tag



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

The AeroScout T5m-v Multi Sensor Tag is a key component of the Extronics Advance condition monitoring solution. The T5m-v tag is a Wi-Fi and active RFID device that leverages the wireless network infrastructure to report changes in temperature, humidity, and voltage using internal sensors. The tag can be attached to stationary or mobile equipment that require continuous humidity, temperature and/or voltage monitoring.

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.

Vehicle logistics

T5m-v Tags address the needs of long-term storage of emergency and mission-critical vehicles in a variety of industries, such as defence and public safety. By monitoring the vehicle's battery voltage (power), ambient temperature, and humidity, the tag will help to ensure the vehicles are stored in optimal conditions and are always in full readiness.

Manufacturing and mining

T5m-v Tags are used in mining and manufacturing to monitor vehicle and machine operations. By monitoring the location and voltage level, users are able to determine operational trends, calculate running hours and schedule maintenance accordingly, or alert in case of unexpected operation.

Ventilation on demand (VOD)

T5m-v Tags are used in mining to monitor vehicle operations. By monitoring the vehicle location and voltage level, users are able to determine the location and operational status of vehicles underground. This information is used to reduce ventilation cost by identifying the areas where ventilation is actually needed.



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Voltage, temperature, humidity sensing

The T5m-v tag has three on-board sensors to monitor voltage, temperature, and humidity respectively. The tag can be configured to provide constant condition readings and send them periodically.

External power option

The T5m-v tag is supplied with a 3 metre (9.8 feet) power cable. This cable can be connected to a car battery to supply power to the tag. The tag can run on external power ranging from 4V to 30V.

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 can be mounted on flat surfaces with screws, and on poles using tie wraps.

Offline condition monitoring

The T5m-v 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.

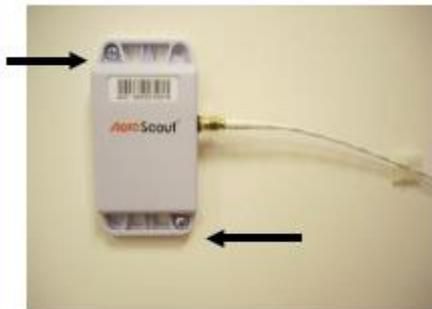
Long battery life

The T5m-v Tag has a replaceable battery that provides up to 8 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.

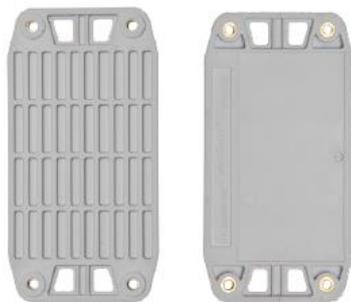
Mounting the tag



Tag mounted on flat surface using M4 screws



Tag mounted on a pole using tie wraps



Tag mounting plate



Tag with remote power cable



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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 | 85 x 59 x 19 mm (3.35 x 2.32 x 0.75 inch) with flanges |
| Weight | 85g (3oz) |
| Battery | 3.6V AA replaceable Lithium Thionyl Chloride battery with soldering wires, battery life up to 8 years (without external power option) |
| External power | 4.5V - 30V |
| Ingress protection | IP54 |
| Sensor range | Voltage: 2.5V to 30V Temperature: -30°C to +75°C (-22°F to 167°F) Humidity: 0 to 100% relative humidity |
| Radio | EN300-328, EN300-330, EN301-489 |
| Safety | CE and c TUVus (EN60950) |
| SKU | TAG 5400 |

Ordering information

| Description | Order code |
|------------------------------------------------------------------------|------------|
| T5m-v Multi Sensor Tag with voltage, temperature, and humidity sensors | TAG-5400 |

Accessories:

| | |
|---------------------------------------------------------------------|----------|
| T5m-v mounting plate (50-Pack). Includes 200 screws | TAC-018 |
| Velcro Attachment Kit Pair (50-Pack). Includes both sides of Velcro | TAC-030 |
| Adhesive Tape Attachment Kit | TAC-031 |
| T5m-v Tag battery (5-Pack) | TAC-244 |
| T5m-v Tag battery (10-Pack) | TAC-243 |
| T5m-v Tag battery (25-Pack) | TAC-242 |
| T5m-v Tag battery (50-Pack) | TAC-241 |
| Hardware Manager Kit | HWM-1000 |



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