

# T5a, T5b & T5c Temperature Tags



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

The T5a, T5b, and T5c Temperature tags are key components of the Extronics Advance temperature monitoring solution. The tags can be attached to stationary or mobile assets that require constant temperature monitoring such as refrigerators, storage equipment, and freezers.

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.



**T5a Tag**

**Internal sensor**  
**-30°C to +75°C**  
**Smallest option**



**T5b Tag**

**External sensor**  
**-60°C to +140°C**  
**80mm probe**



**T5c Tag**

**External sensor**  
**-200°C to +140°C**  
**160mm probe**



### Temperature sensing

The T5a Temperature Tag has an on-board temperature sensor, whilst the T5b and T5c tags have external temperature sensors. All variants can be configured to provide constant temperature readings, and can be externally or internally attached to assets.

### 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.

### Standard Wi-Fi networks

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

### Flexible mounting and usage options

The tags' small size and weight, and convenient form factors, allow mounting on variety of assets. The T5a tag comes with a mounting cradle; T5b and c tags include mounting flanges for easy mounting. Other mounting accessories are available as well.

### Offline condition monitoring

The T5a, b, and c tags 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.

### Potting solution

To stabilise temperature readings and avoid fluctuations, the T5a Tag can be placed directly in a container with glass beads; T5b and c tag probes can also be placed into such as container.

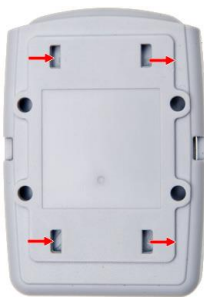
### Long battery life

The T5a Tag has a replaceable battery that provides up to 4 years battery life, whilst the T5b and c tags boast replaceable batteries with up to 8 years life. All variants 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.

## T5a tag mounting options



**Strapping holes - pole**



**Tag attached by a cradle taped to a fridge wall**



**Potting container**



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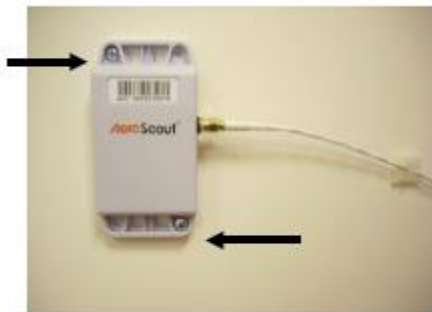


**Tag attached to pole**



**Tag attached by cradle strapped to the fridge's net**

T5b and T5c tag mounting options



**Tag mounted on flat surface using M4 screws**



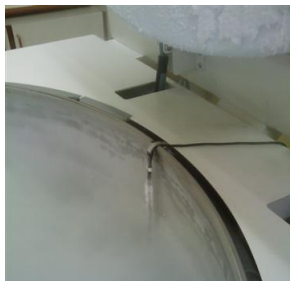
**Tag mounted on a refrigerator using velcro**



**Tag mounted on a pole using tie wraps**



**Sensor inserted through refrigerator door**



**Sensor mounted without pot**



**Sensor mounted with pot**



## Specification

	T5a tag	T5b tag	T5c tag
<b>Outdoor range</b>		Up to 200m (650 feet)	
<b>Indoor range</b>		Up to 80m (260 feet)	
<b>Wi-Fi Radio</b>		802.11b compliant (2.4 Ghz) Clear channel sensing avoids interference with wireless networks	
<b>LF Receiver</b>		Low Frequency receiver for chokepoint detection (125kHz)	
<b>Transmission Power</b>		Up to +19 dBm, ~81mW	
<b>Dimensions</b>	62 x 40 x 17 mm (2.44 x 1.57 x 0.67 inch)	113 x 59 x 19 mm (3.3 x 2.3 x 0.7 inch)	
<b>Probe length</b>	n/a	80mm (6mm diameter)	160mm (6.35mm diameter)
<b>Weight</b>		35g (1.2oz)	
<b>Battery</b>	3.6V ½ AA lithium battery, replaceable, up to 4 years battery life	3.6V AA lithium thionyl chloride battery with soldering wires, replaceable, up to 8 years battery life	
<b>Tag Temperature</b>		-30°C to +75°C (-22°F to 167°F)	
<b>Probe Temperature</b>	n/a	-60°C to +140°C (-76°F to +284°F)	-200°C to +140°C (-328°F to +284°F)
<b>IP Rating</b>	IP65	IP54	
<b>Radio certification</b>	FCC Part 15, sub-part C class B, sub-part B, EN300-328, EN300-330, EN301-489		
<b>Safety certification</b>	CE, cTUVus (EN60950)		



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## Ordering information

### Description

T5a Temperature Tag with mounting cradle

### Order code

TAG-5100

T5a Temperature Tag with potting container

TAG-5100-POT

T5b Temperature Tag with external probe, 2m cable, 2x Velcro attachments, 2x 2" tie wraps, 2x 5" tie wrap, 2x cable tie mount, and 50ml plastic pot

TAG-5110

T5b Temperature Tag with external probe, 3m cable, 2x Velcro attachments, 2x 2" tie wraps, 2x 5" tie wrap, 2x cable tie mount, and 50ml plastic pot

TAG-5111

T5b Temperature Tag with external probe, 15m cable, 2x Velcro attachments, 2x 2" tie wraps, 2x 5" tie wrap, 2x cable tie mount, and 50ml plastic pot

TAG-5112

T5c Temperature Tag with external probe, 2m cable, 2x Velcro attachments, 2x 2" tie wraps, 2x 5" tie wrap, 2x cable tie mount, and 50ml plastic pot

TAG-5120

### Accessories:

T5b Tag Replacement Probe with 2m cable and SMA connector

TAC-511

T5c Tag Replacement Probe with 2m cable and SMA connector

TAC-512

T5b and T5c Tag Replacement Pot for Tag Probes (10-Pack)

TAC-510

T5b and T5c Tag Replacement Mounting Bracket for Probe Pots (10-Pack)

TAC-514

T5a Tag Potting Container (Single Pot), with lid and glass beads

TAC-501

T5a Tag Potting Container (20-Pack), with lid and glass beads

TAC-500

T5a Tag Mounting Cradle for screw or strap mounting (50-Pack)

TAC-250

T5a Tag Mounting Cradle for screw or strap mounting (50-Pack), red colour

TAC-250-R

T5a Tag 300mm long Velcro Strap (20-Pack)

TAC-035

T5a Tag 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

T5a Tag battery (25-Pack)

TAC-230

T5a Tag battery (50-Pack)

TAC-231

T5b and T5c Tag battery (5-Pack)

TAC-244

T5b and T5c Tag battery (10-Pack)

TAC-243

T5b and T5c Tag battery (25-Pack)

TAC-242

T5b and T5c Tag battery (50-Pack)

TAC-241

Hardware Manager Kit

HWM-1000



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