TCAT–EB Total Connect Asset Tracker – Quick Installation Guide

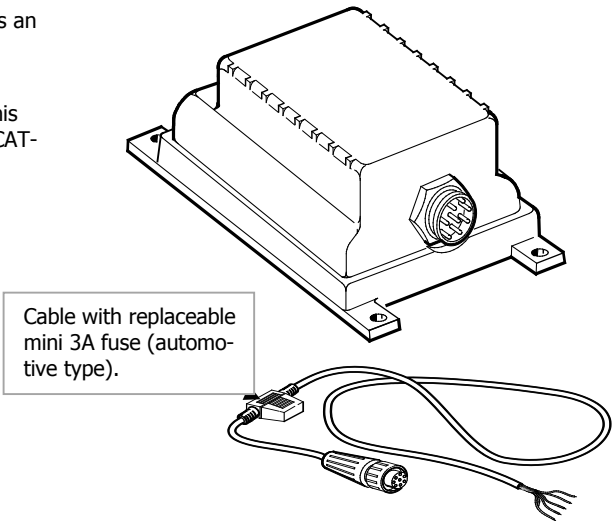**For Online Support visit: https://mywebtech.honeywell.com/**

General Information

The Honeywell TCAT-EB Total Connect Asset Tracker (or simply TCAT-EB) provides an easy solution for tracking fixed or mobile <u>OUTDOOR</u> assets. Each Total Connect account location may have up to 20 asset trackers (mixed models).

The TCAT-EB gathers location information from the GPS satellites then forwards this data (via the cellular network) to Honeywell's AlarmNet monitoring center. The TCAT-EB provides <u>location</u> and <u>motion</u> information.

Users can access their asset tracking data by logging into the Total Connect 2.0 website.

Cable with replaceable mini 3A fuse (automotive type).

Specifications:

Dimensions	Length 4¾", Width 3", Height 2" (Length 121mm, Width 76mm, Height 51mm)
Temperature	−4 to +140°F (−20 to +60°C)
Water Resistance	Meets IP-65 (dust and water immersion)
Vibration / Shock	Meets IEC-68-2-6, and IEC-68-2-27
Power	Internal 6,600mAh battery, and /or 12-24VDC @ 40mA
Cellular Service	CDMA with Verizon

Charging the Battery

<u>For assets that have a power source</u>, the red, and black wires are connected, and the battery is automatically charged from the asset's power source.

<u>For assets that do not have a power source</u>, the asset tracker's internal battery will need occasional charging.

Actual battery life is dependent on many variables such as; proximity to a cell tower, how many daily location reports are made, and temperature. Under ideal conditions with only 1 daily location report the battery may last up to 2 years before charging is required.

Therefore, a once a year charging cycle would be prudent.

Charging the Asset Tracker:

To charge the asset tracker, any 12 to 24VDC @ 1Ah source can be used. Connect the RED and WHITE wires to the charging source positive voltage, and the BLACK wire to the ground.

There is no need to worry about a "charger" since the charging circuitry is built into the device and prevents overcharging.

Fabricating a simple <u>charging cable</u>, using quality workmanship, would make this repeated charging task easy.

For this asset tracker, a **charge time of 10 hours** would ensure a full charge even in cold weather.

Mounting

Guidelines:

- Make note of the MEID number found on the Module Identification Sticker. This will be needed during enrollment using the AlarmNet Direct website.
- Top of the unit should be facing the sky. If not possible, mounting on an inclined surface or side is acceptable.
- Avoid places that accumulate standing water, snow, or ice. Avoid places where it might be subject to impact.
- **DO NOT paint.** Included are two DO NOT PAINT labels. Peel and stick labels on each side in the un-shaded area indicated below.

There are three mounting methods; magnetic, self adhesive pad, or screws.

⚠️ **WARNING:** The supplied magnets are very powerful. Use extreme care in handling to avoid injury.

<u>Magnetic Mounting</u> – This is ideal for ferrous assets. Use the four [4] mounting screws, lock washers, nuts, and magnets (all supplied). Simply mount each magnet on the enclosure mounting tabs and attach to the asset.
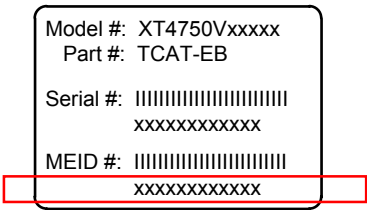
<u>Adhesive Pad</u> – This is ideal for non-ferrous assets.

1. Clean mounting surfaces to remove all grease, dirt and oxide. Then using a clean rag, wipe surfaces with isopropyl alcohol.

   Note: Ensure the mounting surfaces are clean and dry, and the temperature is within 70°F to 100°F (21°C to 38°C).

2. Attach the self adhesive pad (supplied) to the enclosure bottom, then press the TCAT-EB firmly on the asset.
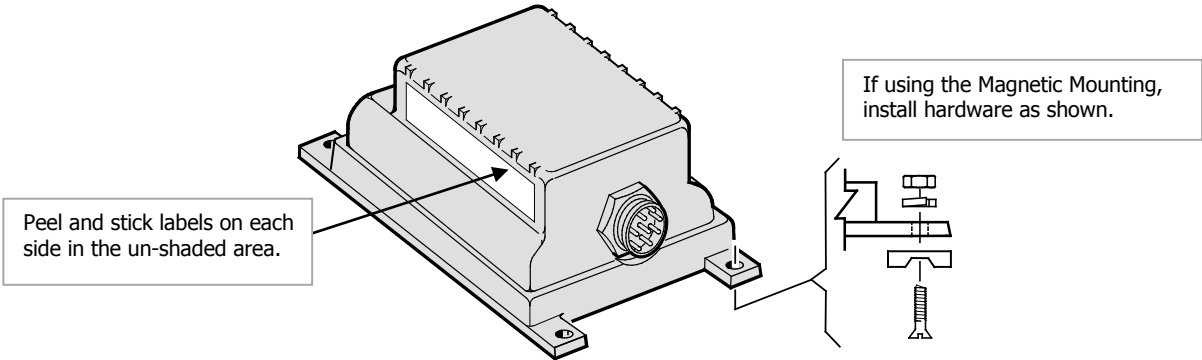3. Allow 30 minutes for the adhesive to bond.

Module Identification Sticker

Model #: XT4750Vxxxxx
 Part #: TCAT-EB

Serial #: IIIIIIIIIIIIIIIIIIIIIIIII
        xxxxxxxxxxxxx

MEID #: IIIIIIIIIIIIIIIIIIIIIIIII
       xxxxxxxxxxxx

Enter MEID # below:

_____

<u>Screws</u> – This is an alternate method for non-ferrous assets where a more secure method than adhesive pads is desired.

1. Use the TCAT-EB holes as a template to mark the location for drilling holes. Drill pilot holes where marked.
2. Fasten the TCAT-EB to the asset using installer supplied screws suitable for the mounting surface (metal, wood, fiberglass, etc.). Select a screw length that allows at least 4 threads to penetrate the mounting surface.
3. Attach using all four holes for mounting.

Peel and stick labels on each side in the un-shaded area.

If using the Magnetic Mounting, install hardware as shown.

Wiring

Depending on the asset, not all wires will be used.

1. Use the wiring table to determine which inputs to use.
2. Use watertight splices.
3. Use cable ties or other method (such as tubing and clamps) to provide protection and secure all wiring.

RED (used for power and internal battery charging)	power, 12-24VDC @ 40mA	WHT	used for battery charging
BLK	ground	BLU, BRN, GRN, ORN, and YEL	not used, individually cap and stow

Typical Wiring Configurations:

Asset with no power	The TCAT-EB will run on its internal battery and need periodic recharging. After activation, all wires must be individually capped and stowed.
	Position information , 60 locate now requests per month, and low battery alerts will be provided via Total Connect with the *Basic Plan*.
Asset with power	The TCAT-EB will use the asset's power source. After activation, the red and black wires must be connected. Unused wires must be individually capped and stowed.
	Position information , 60 locate now requests per month, and low battery alerts will be provided via Total Connect with the *Basic Plan*.

Enroll and configure the TCAT-EB

Dealers can enroll the TCAT-EB and set up a Total Connect account for their customers by visiting the AlarmNet Direct website:

https://services.alarmnet.com/AlarmNetDirect/

➔ Go to the online help and follow the procedure for *Adding GPS Tracking or IP Video Devices*.

When the TCAT-EB is set up and the customer's Total Connect account is established, they can access the TCAT-EB information by visiting:

https://rs.alarmnet.com/TotalConnect2/

Status Indicator LEDs

The TCAT-EB has two indicator LEDs on the enclosure end opposite of the cable. These indicate as follows:

Cell (blue)	GPS (green)
OFF – searching	STEADY – searching
BLINKING – locked	BLINKING – locked