BEWHERE

Installation Instructions

BeSol+

Welcome To BeWhere

Installer Qualifications

The BeWhere device should be installed properly by a qualified mechanic, after they have reviewed the installation manual.

Hardware Included

BeSol
- Sun powered rechargeable battery
- Mounting Screws
- GPS, Temp, Light, Air Pressure, Humidity Sensor

IP67/ 100.6 x 56.6 x 33.7 mm / 4x 2.2 x 1.3”

Tools and Material Required

- BeWhere installation document
- Acetone-based cleaner
- Clean, absorbent rags and/or towels
- Materials for your chosen mounting method (screw, magnet, or VHB tape) shown below

For screw mounting

- Self-tapping sheet metal screw
- Phillips pan head
- Zinc plated sheet
- Max head diameter 6mm
- Bit Size – 4x5/8-inch length

Purchase upfront

For VHB tape mounting

- Cutting tool (scissors, side cutters, or knife)
- Double-sided Very High Bond (VHB) tape
- Butane torch to heat surface

For magnet mounting

- Magnet mounting kit
- Phillips screwdriver
- 8-mm wrench or socket

Warning Information

WARNING: Do not mount any device with antenna side against metal (antenna location shown on page 3)

WARNING: Please follow safety precautions for operating and servicing the installation on BeWhere devices

CAUTION: Re-Tighten any screws loosen during work period

CAUTION: Monitor devices frequently

CAUTION: Clean solar panel after use, this allows the device to fully recharge

STEP 1

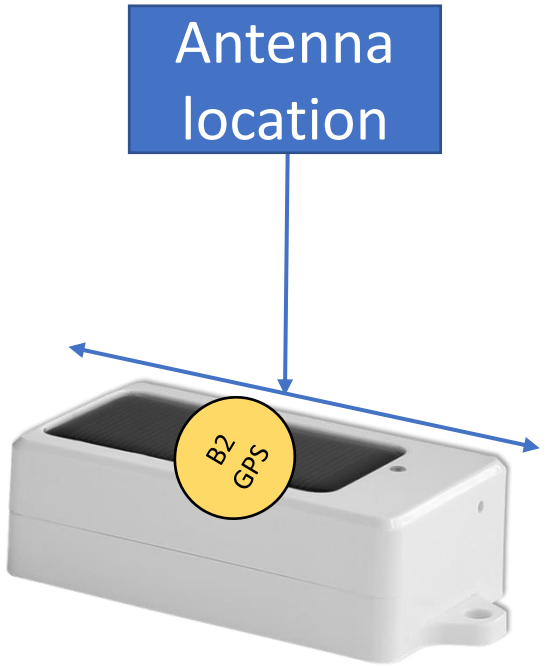
Determine the best location on the asset to install the tracker

- Choose a location where the top surface of the tracker (Antenna) will have a clear view of the sky (as shown below)
- Horizontal mounting is ideal but vertical mounting is acceptable, provided that the top of the tracker has a clear view of the sky
- Choose a location where the tracker is unlikely to be damaged or knocked off during normal operation of the asset
- If you use screws to mount the tracker, choose a location that is not backed by any element that the screws could be damaged

STEP 2

Clean the selected location

- Use acetone-based cleaner to remove oil, grease, and dirt from the mounting location
- Wipe down area with an absorbent rag or towel.
- Ensure area in dry before mounting device



STEP 3

Mount the tracker on the asset

Follow the instructions below , depending on your preferred mounting method

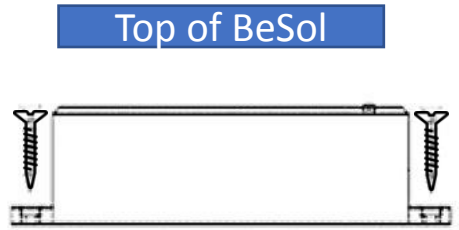
IMPORTANT: Do not drive screws into coolant lines, radiators, electrical wiring, fluid tanks, or moving components.

Using self-tapping mounting screws supplied:

You can use the provided screws to mount the tracker on steel that is up to 1/8inch thick. For thicker steel, use machine screws, magnets, or VHB tape.

1. Place the tracker in the desired location on the asset
2. Using a Phillips Pan Head driver, screw the provided stainless steel self-tapping screws through the mounting holes of the tracker into the asset.

Ensure that each screw is seated securely.



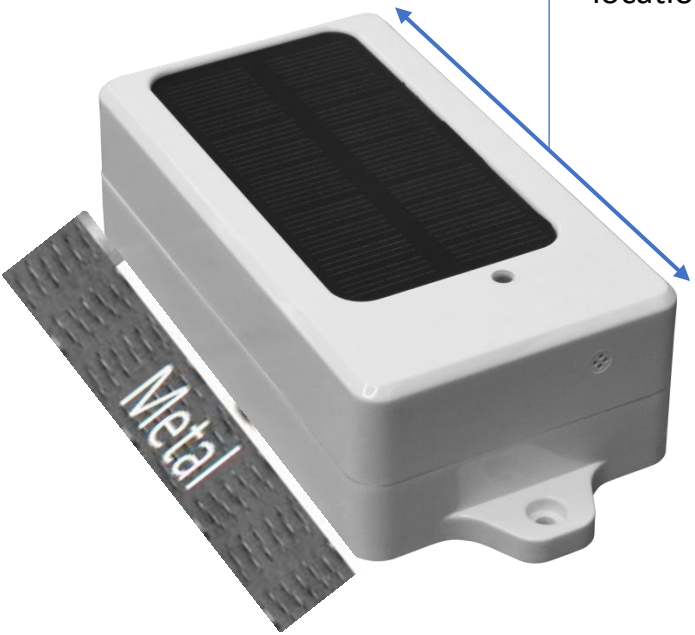
Do not overtighten the self-tapping screws as they will crack the base. Insure both sides are equal in tightness.

Antenna and GPS Importance

Antenna location

It is important not to mount the devices Antenna against metal. If Antenna is mounted against metal, this will block the ability to find the satellite.

This will create inaccurate device location and the information being reported.



Part Numbers
B2 – BeSol (BTS)

BeSol needs to be mounted with the solar panel facing up. It must be in direct view of the sky.

GPS

On **B2 generation devices**, the GPS is located on the top of the PCB board (e.g. under the solar panel). Only B2 BeTen, BeSol, BeWired and BeMini are sold onward.

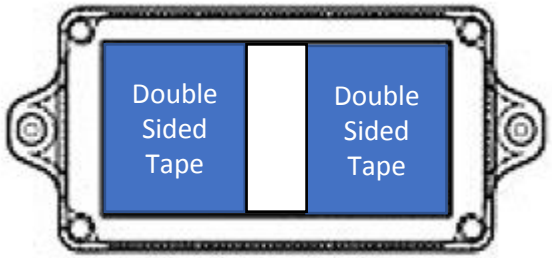
Mounting the devices with GPS directed towards the sky will give the best results. Covered GPS main bounce and be inaccurate.

Alternate Mounting Options

Using VHB Tape– Must be purchased up front at time of order (ie. 3M™ VHB™ Tape is a high-strength, double-sided acrylic adhesive tape)

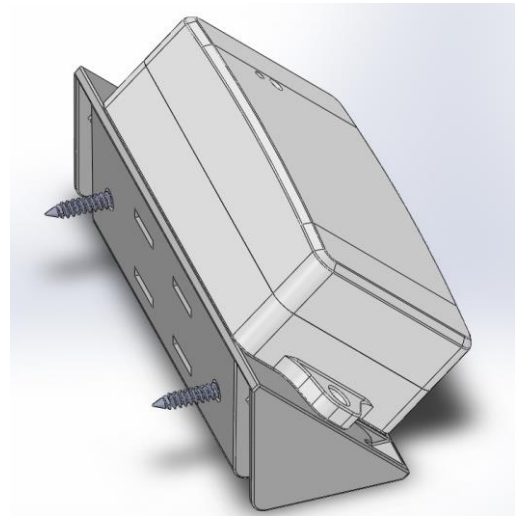
IMPORTANT: The setting temperature must be above 0 °C to ensure proper stick.
Recommended for lower temperature to heat mounting surface before applying tape.

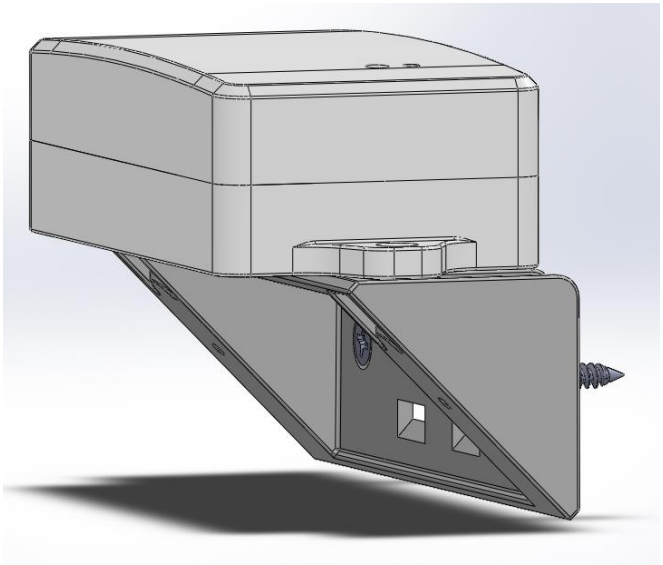
1. Turn the tracker upside down to expose the underside.
2. Measure the VHB mounting tape to cover the entire bottom of the mounting surface. Cut the tap to fit so that it does not extend beyond the ends of the trackers.
3. Remove the backing from the VHB tape.
4. Following the tape manufacturer's recommendations, adhere the tracker to the clean, dry surface of the asset.



Using Bracket Must be purchased up front at time of order

1. Locate area on asset you would like to install the bracket and device
2. Determine the way you would like your device to sit on the bracket
3. Attach your device to the bracket and then install the bracket to the asset





4. Bracket can either be mounted vertical or horizontal – as long as the GPS/Antenna are away from metal and facing the sky

Alternate Mounting Option

Must be purchased up front at time of order

Using Magnets

Industrial strength magnets are a useful mounting option if the equipment might be re-purposed in the future.

1. Locate area on asset that device will be mounted to with magnetic mount.
2. The magnet bolt is wider than the mounting tab hole on the device. This will need to be drilled out for magnet bolt to fit.

Strong magnetic grip connects to any metal for reliable stability and support

Magnet Mount DY32MM

Sizing needed shown below:

	D (mm)	M(mm)	H(mm)	h (mm)	G	KG
D32	32	6	18	7.8	43	34

Installation Do's

GPS pointing to the sky, antenna away from the metal, asset in an outdoor location= correct installation which offers the best data. Therefore we recommend using BeSol for outdoor assets management

Installation Don’ts

Device mounted under metal

Antenna facing into metal

Do not power wash your devices!!

Hiding/ covering the trackers will likely result in poor network coverage and will not be able to give a valid GPS fix.

Compliance Statement

A separation distance of 20 cm must be maintained between this device and nearby persons.
Une distance de séparation de 20 cm doit être maintenue entre cet appareil et les personnes à proximité.

FCC statement: "This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."
"Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment."

IC statement:
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Changes or modifications not expressly approved by the party responsible for compliance could void the user‘s authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

BeWhere, B4-MIOT-MR BSP
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BEWHERE

LET’S GET TRACKING