InstAlert 18 Hardware Quick Start Guide

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S O L U T I O N S

Thank you for purchasing an All Traffic Solutions InstAlert 18 Variable Message Sign. This hardware quick start guide will show you how to set up, power, and configure your new sign. For details about using the sign, go to www.alltrafficsolutions.com/support, where there are complete user manuals that you can use online or download and print.

[Figure 1] InstAlert 18 Variable Message Sign

Unpack the equipment

Remove the sign, batteries, charger, and other optional equipment from the boxes.

Batteries should be fully charged before deployment. InstAlert Variable Message Signs can accommodate up to two 16Ah lithium batteries internally. Although only one battery is required, two batteries are recommended to extend the run time of the sign, on average from 7 to 10 days.

For all steps involving batteries, repeat for the second battery as necessary.

Remove the batteries

1. Place the InstAlert 18 face down on a flat surface and remove the mounting bracket by unlocking the lock with the supplied key and lifting up on the bottom of the mounting bracket.

2. Next, remove the battery compartment cover by removing the thumb screws. Set the key, bracket, and thumb screws aside.

3. Slide the battery out of the battery compartment, as shown in *[Figure 2] below*.

[Figure 2] Slide the battery

[Figure 3] Disconnect the battery

4. Disconnect the power connectors if connected, as shown in *[Figure 3] above*.

Charge the batteries

The InstAlert 18 arrives with the batteries partially charged and needs to be fully charged before deployment.

⚠️ **CAUTION:** The charger is not intended for outdoor use. The batteries should only be charged and stored in a controlled environment.

1. Plug the battery into the supplied charger cable.
2. Plug the charger cable into a power outlet. The light on the charger displays red while charging and changes to green when charging is nearly complete. A charge can take up to 11 hours for the 12V 16Ah LFP batteries supplied with the sign.

3. When the indicator on the battery charger turns green, repeat for the second battery if applicable, and then proceed to the next step.

Install the charged batteries

1. Disconnect the battery from the charger.
2. Place the InstAlert face down on a flat surface and remove the mounting bracket and battery cover.
3. Connect the battery wiring harness to the connector inside the battery compartment, as shown in *[Figure 3] on the previous page*.
4. Tuck the connector into the space in the top of the battery compartment.
5. Holding the connector in place, slide the battery into the compartment.
6. Replace the cover and fasten it down using the thumb screws.

Configure the InstAlert

When you deploy the InstAlert to the field, you'll need to power it on using the **Power** button. You can use the other onboard buttons to set the **Speed Limit** and **Display Mode**. TraffiCloud subscribers can configure the sign remotely at any time using the online portal. Alternatively, you can set up your sign while you are on site, either with a USB connection using TraffiCloud Sign Manager for Windows, or the TraffiCloud Mobile app for Android via Bluetooth.

Complete the following steps to configure the InstAlert:

1. Turn the sign on by pressing the **Power** button on the back, below the battery compartment. The InstAlert will display two dashes and will then go through a self-check. Once the LEDs turn off, the sign is fully operational. A green LED on the top-left corner flashes every 10 seconds to indicate when the sign is powered on.
2. **If the sign is NOT preconfigured using TraffiCloud, Sign Manager, or the mobile app:**
   - Set the speed limit by pressing the **Speed Limit** button until the desired speed limit is displayed on the sign. The first press displays the current speed limit.
   - Verify or set the display mode on the InstAlert. The default is **Single Message Mode**. To change the mode, press the **Display Mode** button until the desired mode displays on the front of the sign. For details about sign modes, see the table below and the *Getting Started* manual for your sign.

   To reduce the risk of tampering, the buttons deactivate five minutes after you power on the sign. To reactivate them, long press the **Power** button again.

Mode	Description
SINGLE MSG MODE	Continually displays the active message on the sign.
ALL MESSAGES MODE	Continually displays each message that is stored in the sign's memory, in sequence.
NO DISPLAY (STEALTH)	The display is turned off but the sign is still on and gathering sign status data.
SPEED LIMIT SIGN	Displays the posted Speed Limit set in the sign at all times.

Install the mounting bracket on the pole

Use either of the methods in this section to install the mount bracket for your InstAlert on the pole.

1. Install the bracket and sign on the pole so that the center of the sign is about 6 feet (1.83 meters) above the road surface.

2. Do either of the following:

    - If you'll be mounting the sign on a U-shaped pole, bolt the mounting bracket to the pole using the supplied carriage bolts or U bolts, and wing nuts.

      The wing nuts will be secured inside the back of the sign to prevent tampering.

    - If you'll be mounting the sign on a round pole, thread the banding straps through the mounting bracket, and then tighten the bracket and straps around the pole. Thread the ends of the banding straps together and then tighten them onto the pole. A power-drill or power screwdriver and hex bit work best to tighten the straps.

Mount the InstAlert

1. Make sure the sign is powered on and configured properly.

2. Set the top channel on the back of the sign onto the tab at the top of the mounting bracket.

3. Rotate the sign down until it's flush with the bracket.

4. Push the locking pin up to lock the sign into place.

> **NOTE:** We are here to help! To speak with a technician, call us at 1 (866) 366-6602, option 2, or send email to support@alltrafficsolutions.com.