

## PRODUCT SPECIFICATIONS

# INSTALERT 18 VARIABLE MESSAGE SIGN

**ALL TRAFFIC**  
SOLUTIONS



- InstAlert 18: 18" x 28" full matrix (InstAlert 24 24" x 60" full matrix also available – see separate InstAlert 24 spec sheet)
- Size and weight without battery 30" x 20" x 2.74, 29 lbs.
- Full matrix display
- Universal mounting system: Attach to pole, trailer or vehicle hitch mount
- Meets MUTCD specifications

### InstAlert Operation Modes

- Message Mode: Display one message, up to six screens
- All Messages: Sequence all messages in sign memory
- Schedule: Change message and/or mode up to 13 times per day
- Sign returns to last configuration when power applied

### InstAlert Programming Methods

Onboard programming (standard on all units):

- Select operation mode
- Select message from sign memory

### TraffiCloud Web-based Remote

Management Services

Remote management using integral cell modem

(See TraffiCloud specification for more information):

- Turnkey system. Remote connectivity functional upon ship. Unit connects to TraffiCloud Service when powered
- Fully hosted web-based management system Internet-connected computer with browser provides anywhere access on all connected devices
- No IT involvement or support necessary. System bypasses customer network, eliminating access issues Cellular provided by ATS, no separate cellular charges
- Hosted database requires no setup or maintenance by customer

### Apps – All apps included in TraffiCloud Message Suite:

- Equipment Management Online sign management —Change messages and settings remotely
- Alerts: Notifications for low battery and tampering
- Mapping: Visually manage equipment and data

### ATS PC Sign Manager

Local Management using PC with USB connection standard with all signs, Bluetooth optional

- PC based client software
- Connect to sign via USB or Bluetooth (optional)

**ATS Android App: Local Management (Optional):**

- Android OS wireless Bluetooth control local to unit
- Android device can be phone or WiFi device with Bluetooth

**Local Management Features: (PC and Android)**

- Create and change messages and settings  
Manage all unit settings, automatic sync with
- TrafficCloud Web-based Remote Management Service if subscribed
- All messages saved for online management and backup
  - o Create message and save to TrafficCloud library messages available on all ATS Android App or PC Sign Manager devices with TrafficCloud subscription

**InstAlert Messages**

- IA18: 1-2 line messages
  - o 1 line: 10 1/4" H x 5.75" W characters, four per line
  - o 2 lines: 7" H x 4" W characters, six per line
- Up to six screens per message
- Full graphics capability, each LED individually controllable
- Variable display time, flash and reverse rates for each screen
- Scroll through 25 user defined onboard messages using selector buttons built into sign, no training necessary
- Ability to sequence messages for up to 144 screen animation
- Message power efficiency calculator in software
- Actual sign preview and unlimited message storage using TrafficCloud Web-based Remote Management Service, ATS PC Sign Manager or ATS Android app
- Messages on sign retained when power removed
- Sign returns to last message when power applied
- Conditional Messaging – Dynamically display messages driven off sensors and/or incorporate into messages

**InstAlert Programming**

Configure the following parameters via TrafficCloud Web-based Management System, ATS Android app or PC Sign Manager

- Messages
  - o Create and load message using 'Display Now' feature
  - o Load 24 messages into sign's memory
  - o Scroll messages in sign's memory
  - o Display signs stored in TrafficCloud Web, ATS Android app or PC Sign Manager

**Scheduling**

- All Days, Multiple Messages: Schedule up to 50 different messages or modes for up to 13 different time periods in a 24 hour day, repeats in each 24-hour cycle
- Seven Day, Multiple Messages: Schedule different messages or modes for up to 13 different time periods in each 24-hour day for each of seven days, repeats in each seven day cycle; up to 50 different messages can be used over the seven day period
- All messages and scheduling reside on the sign – no external hardware necessary
- Program schedule via TrafficCloud Web, ATS Android app or ATS PC Sign Manager, save to load onto multiple signs
- Internal real-time clock, time and schedule maintained with power disconnected



### Construction

- LED Pixels: Amber 595nm, 30-degree viewing angle, 100,000 hours, black background, (MUTCD compliant)
- LED Density: 0.6" x 1" pitch, 18 x 48 pixel matrix
- Conformal coating on all circuit boards
- Integral handle
- Weatherproof, NEMA 4, IP65 sealed
- ¼" Tinted, non-glare, UV stabilized polycarbonate face
- Drip proof, vented battery compartments (2)
- Aluminum chassis, 14 ga, white powder coat finish, black powder coat front for maximum contrast for display visibility
- Tamper-resistant mounting hardware system, hardware, controls and battery access secured behind enclosure lock
- -40 to 160 F operating temperature range, 95% humidity non-condensing (-20F for Bluetooth communication, 5F for internal camera)

### InstAlert Power

- Power Input, Max: 12 VDC, 3 A max, 36 W max
- Power saving circuitry and automatic dimming for ambient light conditions with adjustable dimming range and manual display brightness override
- InstAlert 18 Power Options:
  - 16Ah LFP battery with built-in short circuit and reverse polarity protection circuitry; 1.5A 12.8 VDC output, 120VAC input automatic charger; Capacity for up to 2 batteries in unit for extended portable use
  - Solar panel assist: 40W or 60W solar panel and bracket, Solar controller panel with 26Ah lead acid battery; 6A 120VAC automatic charger optional
  - 100-220VAC AC power supply (6A 12VDC) in external NEMA 4 enclosure

Mounts on post, pole, trailer or vehicle hitch

Engineered and manufactured in the USA in compliance with the Buy American Act and the Buy America Act.



- ATS 5 Trailer (batteries with optional solar assist:
  - 235 or 470 Ah battery system, 40 or 60W solar option
  - ATS 3 Trailer, 100Ah battery and 40W solar option
- Battery level indicator on sign, ATS Android app, ATS PC Sign Manager or TrafficCloud Remote Management
- Auto recovery for battery with solar
- NCHRP 350-approved on 4" pole (Letter SS-135) ATS 5 Trailer (refer to ATS 5 specifications for more information)
- ATS 3 Trailer (refer to ATS 3 Trailer specifications for more info)
- Vehicle Hitch Mount
  - Mounts sign 30" to bottom of sign from receiver tube (final height dependent on receiver height)
  - Fits 1 1/4" or 2" receiver, adapter included, 1/2" hitch pin
  - Locking rotation adjustment on 15 degree increments over 180 degrees, +/- 5 degrees tilt
  - White powder coat finish with rear reflector
- Standard Folding Portable Post
  - Folds for easy storage and portability
  - IA 18: 60" to 73" to bottom, 80" to 93" to top of sign depending on leg positions
- Mounting provisions for permanent applications with 1/4"-20 threaded holes

### Standard InstAlert System Components

- InstAlert 18 variable message sign
- Tamper-resistant mounting plate and hardware
- Key
- On-board controls
- ATS PC Sign Manager software with USB cable

### Optional InstAlert Components and Features

- TrafficCloud Web-Based Remote Management Service
- ATS Android app, Blue tooth connectivity
- Padded carrying case
- Extra mounting brackets
- 7A, 30VDC or 7A 120VAC max, 100mA 5VDC min, no power supplied, simply a contact closure
- Tamper Alarm: ATS 5 or ATS 3 Trailer

### InstAlert Mounting Options

- Pole mount standard with included bracket, hardware

### Warranty Options

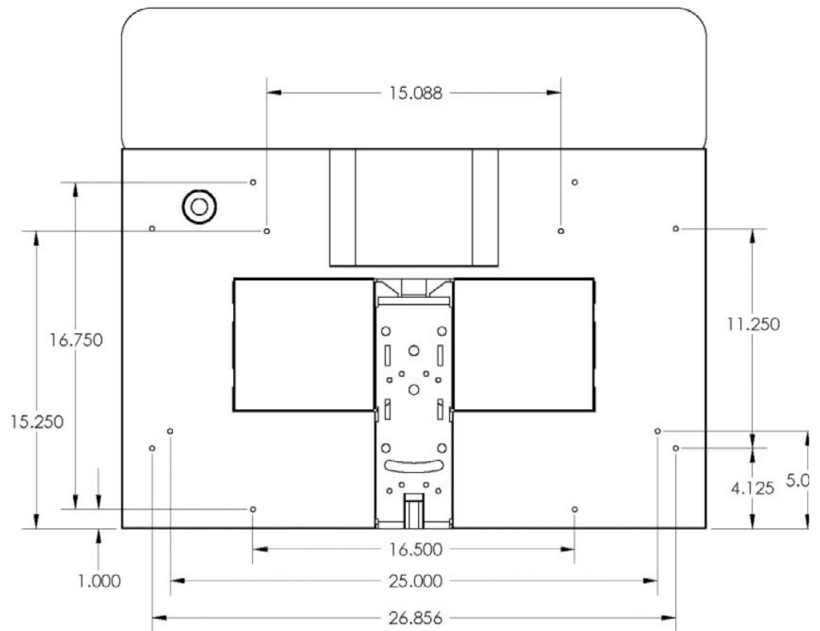
- PremierCare Perpetual Warranty available with current TrafficCloud subscription. Ask your ATS sales rep for details.
- ATS 3-year Manufacturer's Warranty comes standard on all InstAlert variable message signs purchased after January 1, 2019.

Technical drawing of a pole mounting bracket. The drawing shows a side view of the bracket with various dimensions and labels. Key dimensions include:

- Overall width: 3.920
- Top flange width: 2.450
- Top flange thickness: .250
- Top flange offset: .485
- Top flange height: 1.375
- Bracket height: 2.750
- Bracket width: 2.000
- Bracket offset: 6.000
- Bracket height: 1.750
- Bracket width: 1.000
- Bracket offset: 1.000
- Bracket height: 4.125
- Bracket width: 2.876
- Bracket offset: 2.500
- Bracket height: 11.875

Labels and notes include:

- slots for banding to pole
- $\phi 1/2"$ , 3 typ carriage bolt mounting holes
- $\phi 7/16"$ , 4 typ U-bolt mounting holes
- carriage bolt slot provides leveling capability



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## InstAlert 18 with Trailer Mounting Brackets Installed – for Installation on Existing Trailers for Trade In

