PRODUCT SPECIFICATIONS

INSTALERT 18 VARIABLE MESSAGE SIGN

• 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
  - TraffiCloud Web-based Remote Management Service if subscribed
- All messages saved for online management and backup
  - Create message and save to TraffiCloud library messages available on all ATS Android App or PC Sign Manager devices with TraffiCloud subscription

InstAlert Messages
- IA18: 1-2 line messages
  - 1 line: 10 1/4” H x 5.75” W characters, four per line
  - 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 TraffiCloud 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 TraffiCloud Web-based Management System, ATS Android app or PC Sign Manager
- Messages
  - Create and load message using ‘Display Now’ feature
  - Load 24 messages into sign’s memory
  - Scroll messages in sign’s memory
  - Display signs stored in TraffiCloud 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 TraffiCloud 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 TraffiCloud Remote Management
- Auto recovery for battery with solar

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
- TraffiCloud 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
- NCHRP 350-approved on 4” pole (Letter SS-135)
  ATS 5 Trailer (refer to ATS 5 specifications for more information)
- ATS3 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 ¼” or 2” receiver, adapter included, ½” 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 ¼–20 threaded holes

Warranty Options
- PremierCare Perpetual Warranty available with current TraffiCloud 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.
InstAlert 18 Mounting Bracket and Mounting Holes

Additional Mounting Provisions:
1/4-20 thread, captive nuts
InstAlert 18 with Trailer Mounting Brackets Installed – for Installation on Existing Trailers for Trade In