Johnson Controls

TrueAlert Text Messaging Appliance

UL, ULC, CSFM Listed

LED Text Messaging Appliance with Addressable Message Selection using IDNet Communications

TrueAlert Text Messaging Appliance Illustration with Sample Message

Features

High visibility, multi-color LED text message board provides visible textual alarm notification controlled from compatible Johnson Controls fire alarm control panels:

- During alarm conditions, up to 32 pre-programmed message selections can be activated in response to pre-defined emergency situations or linked to specific system point status conditions
- Text messages provide textual alarm notification for areas of high noise or with other audibility limitations
- Text messages can duplicate a broadcasted audible message or can provide more local detail per the Emergency Communication Systems/Mass Notification plan
- UL listed to Standard 1638, Textual Visible Appliance; ULC listed to S527, Miscellaneous Ancillary Device (refer to ULC message note requirement on page 3)

Compatible with the 4007ES, 4010, 4010ES, 4100ES, and 4100U Series fire alarm control panel using IDNet communications

- IDNet communications format emulates 4009 IDNet NAC Extender (4009A) controls for easy interfacing
- 4007ES, 4010ES, 4100ES, and 4100U IDNet SLCs (signaling line circuit) can control up to 25 message boards with up to ten (10) 4009 IDNet NAC Extenders
- 4010 IDNet SLCs control up to five (5) total of either type

Large message presentation area provides long distance, wide area (140°) viewing:

- Dual line, 2.3" (58 mm) high messages provide typical viewing distance of up to 100 ft (30.5 m)
- Single line 4.7" (119 mm) high messages provide typical viewing distance of up to 200 ft (61 m)
- LEDs are multi-color (red/yellow/green) to emphasize message content
- Words can be upper or lower case, standard, bolded, condensed or expanded, with selectable sizes
- Messages can be static, flashing, or scrolling with a variety of appearance/transition options

IDNet communications control provides:

- Up to 32 available messages; 10 factory pre-programmed messages are included

Custom message details:

- Advise of proper evacuation routes, relocate to a secure area, take action due to severe weather conditions, defend in place, or other facility specific actions
- New messages can be created; factory pre-programmed messages can be modified if needed
- Please note that the creation and modification of alarm messages may trigger code-mandated retesting of the fire alarm system and should be performed by authorized service personnel; non-alarm general messages can be created using TrueSite Workstation Free-Form Messaging Software

Electrical requirements:

- Message board is powered by listed fire alarm power supply providing 24 VDC with battery backup, typically provided by host control panel

Mechanical features:

- Standard message board includes fixed brackets for wall mounting and also includes 100 mm VESA (Video Electronics Standards Association) mounting holes for use with listed wall or ceiling VESA mounting bracket
- Optional wall mount adjustable brackets allow rotation downward where required for improved viewing
- Optional mounting box secures to wall (surface or flush); can also mount with 100 mm VESA bracket
- Ceiling mounting is available by cable suspension connected to top mounted eyehooks

Additional (optional) operation mode:

- Message boards can also display general non-alarm information via local LAN Ethernet connection created using TrueSite Workstation Free-Form Messaging software; general free-form messaging is overridden during an Alarm or Alert condition
- Control panels will override non-alarm messages upon alarm; they can also be programmed to blank the display during local power failure to conserve batteries

* This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7300-0026:324 for allowable values and/or conditions concerning material presented in this document. It is subject to re-examination, revision, and possible cancellation. Additional listings may be applicable, contact your local Johnson Controls product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Johnson Controls International.

Description

Text Messaging Appliances. Audible appliances and strobes are commonly used to provide notification of alarm conditions, typically to signal the need for building evacuation. However, when the required response is to relocate, defend in place, or provide detailed information, TrueAlert Text Messaging Appliances display custom text messages with the instructions required per the local emergency communication systems/mass notification plan.

Alarm Mode. When alarm conditions occur, the fire alarm panel overrides optional non-alarm messaging and selects the programmed messages pre-determined to be appropriate for the reported conditions. In multiple alarm situations, up to 8 messages can be displayed in sequence.

Time and Date (Optional). If desired, the TrueAlert Messaging Appliance can be configured to display time and date obtained from an SNTP server on the facility's Ethernet network.

General Messaging (Optional). Fire detection systems configured with a TrueSite Work Station (TSW) are capable of sending custom, free form messages of up to 100 characters to 4907-9007 displays that are on the same Ethernet network. Free form messaging is a discrete application that operates on TSWs equipped with Microsoft Windows 7 and Windows 10 operating systems. Alarm messages will always take priority over any free form / general messages being displayed. (TSW's that were not factory-configured with the free-form messaging application can be upgraded by downloading the software from the appropriate JCI website.)

Emergency Communications (Optional). The 4907-9007 TrueAlert Messaging Appliance can receive emergency messages from cloud-based emergency notification platforms such as e2campus or Rave Mobile Safety. Using these services, the sign queries the emergency notification platform for messages. These emergency notification service platforms provide a web interface that enable a local authority (such as a chief of police, for example) to log-in on their PC and send dynamic messages to a portal for transmission to various device types, including the 4907-9007 display. (Note that a customer must have an account with an emergency notification service to employ this capability.)

Remote Monitoring (Optional). Authorized users can check the configuration and operating status of 4907-9007 displays from a web browser by accessing support.inovasolutions.com using the support account that is included with each message board. Remote monitoring can be configured to allow email alerts to be issued in the rare event that one or more 4907-9007 displays lose time synchronization or becomes non-responsive.

Power Failure Mode. The host fire alarm panel can be programmed such that during a local power failure, the blanking message is sent to reduce battery standby requirements. In the event of an alarm condition during power failure, the panel will use its battery backup to fully power the appliance and display the appropriate messages.

Message Control Process. The compatible fire alarm control panel activates the Messaging Appliances by sending IDNet communications commands similar to those used to control the 4009 IDNet NAC Extender. Commands include control of up to 8 NACs, and with each NAC capable of up to 4 different control modes, resulting in a total of 32 commands available to select custom messages and/or the blanking control.

Product Selection

Model	Description
4907-9007	TrueAlert Messaging Appliance in dark gray housing; supplied with fixed mounting brackets for wall mounting; includes holes for VESA bracket mounting, or for ceiling cable mounting
4907-9002	Optional Adjustable (Swivel) Mount Brackets (2) to allow wall mounted appliance to be tilted down where desired
4907-9005	Optional Ethernet Cable, 15 ft long (4.6 m); connect for non-fire alarm messaging input
4907-9006	Optional Mounting Box, lightweight aluminum painted dark gray; 30-5/16" W x 6-3/4" H x 1-3/8" D; shipped with brackets for attaching messaging appliance; refer to details on page 4

Factory Pre-Programmed Messages

Message Number	Refresh Rate	Message Title		Displayed Message (top line is yellow, bottom is scrolling red except as noted)
1	20 sec	Bomb Threat	Top Line, Fixed	**Bomb Threat**
			Bottom Line, Continuous Scroll	An emergency has been reported in the building. Please proceed to the nearest exit and vacate the building.
2	15 sec	Hostile Intruder	Top Line, Fixed	**Hostile Intruder**
			Bottom Line, Continuous Scroll	An emergency has been reported in the building. Please secure your area and wait for further instructions.
3	20 sec	Shelter in Place	Top Line, Fixed	**Shelter In Place**
			Bottom Line, Continuous Scroll	An emergency condition has been reported. Secure your windows and doors and remain in the building. Unsafe conditions may exist outside. You will be notified when further information is available
4	15 sec	Alternate Exit	Top Line, Fixed	**Evacuate-Alt**
			Bottom Line, Continuous Scroll	An emergency condition has been discovered in the building. Proceed to your alternate exit and vacate the building.
5	15 sec	Severe Weather Alert	Top Line, Fixed	**Weather Alert**
			Bottom Line, Continuous Scroll	A severe weather warning has been issued. Proceed to the designated shelter area and wait for further instructions.
6	15 sec	All Clear	Top Line, Fixed	**All Clear**
			Bottom Line, Continuous Scroll	(scrolling green) Attention please, the emergency condition has been cleared. You may return to your normal activities
7	20 sec	Evacuate	Top Line, Fixed	**Evacuate**
			Bottom Line, Continuous Scroll	A fire has been reported in the building. Proceed to the nearest exit and vacate the building. Report to your designated assembly place outside the building
8	20 sec	Alert	Top Line, Fixed	**Alert**
			Bottom Line, Continuous Scroll	An emergency condition has been detected in another part of the building. Please remain in your area. You will be notified if further action is required.
9	10 sec	Live Voice	Top Line, Fixed	**Live Voice**
			Bottom Line, Continuous Scroll	A live voice announcement is currently being broadcast
32	2 sec	Blank	Both Lines	No characters are displayed; used to conserve battery backup

Specifications

Power Requirements

Input Voltage	UL ratings, 16 to 33 VDC; Special Application ratings see note below*	Connect to fire alarm power supply with battery backup
	ULC ratings, 20 VDC to 30 VDC	

	Operating Mode	**Current at 16 VDC**	**Reference, Current @ 24 VDC**
Input Current	Typical Message (Bomb Threat)	485 mA	320 mA
	Standby, Blank Display	400 mA	275 mA
	Both lines all # characters	500 mA	350 mA

* "Special Application" refers to the operating category under UL Standard 1638, *Visual Signaling Appliances – Private-Mode Emergency and General Utility Signaling*. The rated voltage range listed is the absolute operating range. Operation outside of this range may cause permanent damage to the appliance. Please note that 16 VDC is the lowest operating voltage that is allowed at the last appliance on the circuit under worst case conditions.

Communications

Address Requirements	One IDNet address per Text Messaging Appliance
IDNet Channel Capacity	4007ES, 4010ES, 4100ES, and 4100U IDNet SLCs = up to 25 message boards (device type MSGBRD) and with up to ten (10) 4009 IDNet NAC Extenders
	4010 IDNet SLC = a combination of up to five (5) total message boards and/or 4009 IDNet NAC Extenders
Point Requirements	Eight (8) system points per Text Messaging Appliance

Message Specifications

Message Length	Up to 1024 characters maximum per message including spaces
ULC Listed Systems	**NOTE:** For ULC listed systems, a continuous message display is required; the default message "No Alerts, Be Safe" is available to be displayed during standby, non-alarm conditions (it can be customized if desired)

Mechanical and Environmental

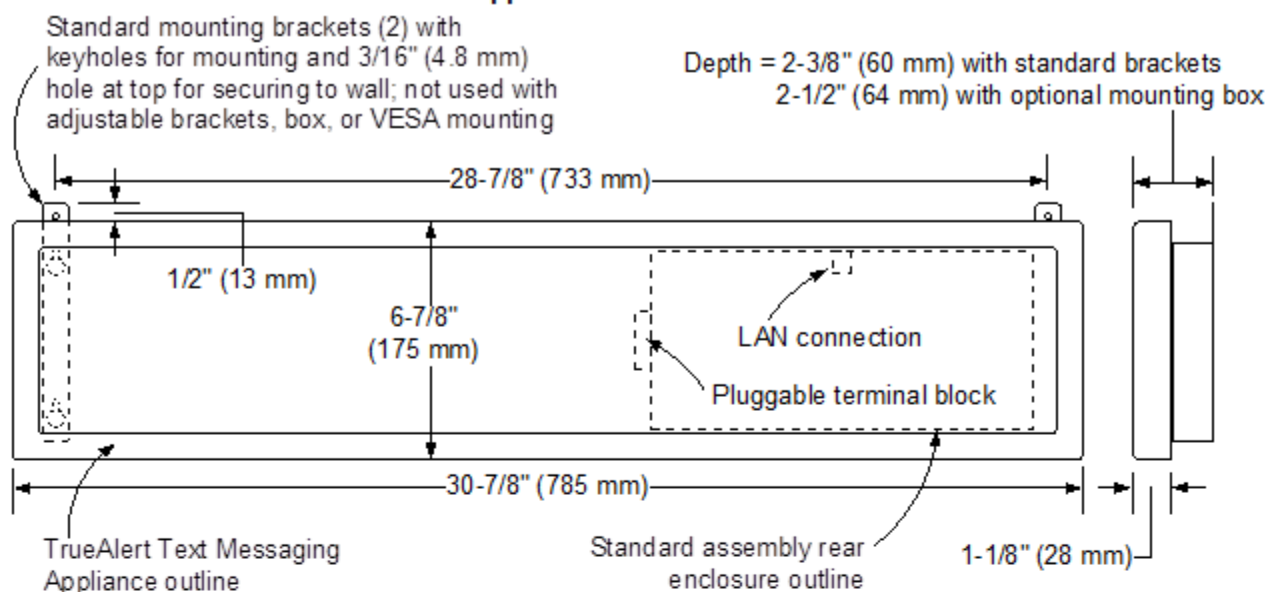| Viewing Distance	Dual line, 2.0" (51 mm) high messages provide typical viewing distance of up to 100 ft (30.5 m); **NOTE:** This is the format for standard programmed messages
	Single line 4.0" (102 mm) high messages provide typical viewing distance of up to 200 ft (61 m)
	Recommended minimum viewing distance = 6 ft (2 m)
Viewing Angle	140°, symmetrical about on-axis, both horizontal and vertical viewing angle
LED Array	Viewing area = 28-3/4" x 4-3/4" (730 mm x 120 mm)
	LED size and spacing = 0.2" (5 mm) diameter; spaced 0.3" (7.6 mm) apart (pitch)
Diagnostics	Status LED are visible from the bottom of the appliance; functions include: IDNet Receive; IDNet Transmit; Power; CPU Power; diagnostics for optional Ethernet LAN connection
Temperature	32° to 120° F (0° to 49° C)
Humidity	93% RH, non-condensing at 90° F (32° C)
Connections	Pluggable terminal block for 18 AWG to 12 AWG (0.82 mm^2 to 3.31 mm^2); terminals provide convenient in/out wiring with one wire per terminal

Mounting Reference

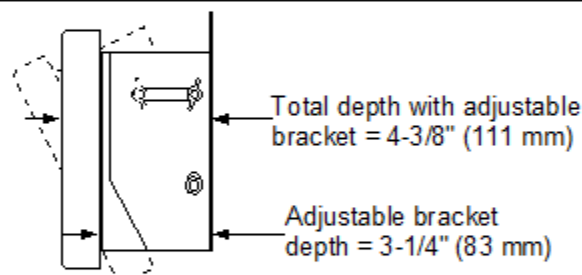| Available Methods	Standard: fixed brackets
	Optional: adjustable brackets to swivel message board down
	Optional: rear backbox for rigid conduit connection; for surface or flush box mounting as well as compatible with VESA mount or eye bolt
	Alternate: four mounting holes, 3.937" (100 mm) spacing, standard unit and on backbox for VESA mount to listed VESA wall or ceiling mounting arm assembly
	VESA Mount: refer to Peerless LCC-18 series for ceiling mount; go to www.peerlessmounts.com
	Alternate: eye bolts can be attached to top for cable suspension ceiling mount of single appliance
Weight	8 lbs (3.6 kg) including backbox
Location	Locate away from direct sunlight or direct local area lighting; avoid locating near heating or air conditioning ducts
Installation Instructions	Refer to 579-1282 for complete LED Text Messaging Appliance Instructions; mounting options are also described in instructions 579-839

Non-Alarm LAN Interface Specifications

LAN Interface	TCP/IP connectivity; supports DHCP addressing; 10/100 Base T Ethernet NIC
Connection	RJ-45 jack connection located at the top of the electronics enclosure housing

── Standard Appliance Installation Reference ──

Standard mounting brackets (2) with keyholes for mounting and 3/16" (4.8 mm) hole at top for securing to wall; not used with adjustable brackets, box, or VESA mounting

Depth = 2-3/8" (60 mm) with standard brackets
2-1/2" (64 mm) with optional mounting box

28-7/8" (733 mm)

1/2" (13 mm)

6-7/8" (175 mm)

LAN connection

Pluggable terminal block

30-7/8" (785 mm)

TrueAlert Text Messaging Appliance outline

Standard assembly rear enclosure outline

1-1/8" (28 mm)

Optional Adjustable Bracket Reference

Total depth with adjustable bracket = 4-3/8" (111 mm)

Adjustable bracket depth = 3-1/4" (83 mm)

── Optional Mounting Box Detail Reference ──

1-3/8" (35 mm)

30-5/16" (770 mm)

6-3/4" (171 mm)

Threaded inserts to mount optional adjustable brackets if desired; center hole is for wall mounting

Inside holes (4) for mounting on 4" square electrical box; outside holes (4) threaded inserts (M4.0 x 0.7) for 4" (100 mm) VESA mount

7/8" (22 mm) knockouts, 3 places; 2 as shown, one located center of top of box

Side holes connect to brackets (supplied) that mount to messaging appliance