



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 Simplex® 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 7)

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

- IDNet communications format emulates 4009 IDNet NAC Extender (4009A) controls for easy interfacing
- 4100ES, 4010ES, 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 messages can be on-site created using optional TrueAlert Messenger 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 non-alarm information via local LAN Ethernet connection using separate control software that is overridden during an Alarm or Alert condition (refer to details on page 2 and ULC details on page 3)
- Additional message input options are available (contact your local Simplex product representative for details)
- 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. Accepted for use – City of New York Department of Buildings – MEA35-93E. This product was not approved by FM as of document revision date. Additional listings may be applicable, contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

## 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.

**Non-Alarm Mode (Optional).** During non-alarm conditions, bulletin board messages can be scrolled for general information distribution. This information is

communicated to the Messaging Appliance via LAN connection (local area network), if optionally connected. This connection can be used or left unconnected.

**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 4010 or 4100U 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
4907-9001	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
—	Non-alarm messaging software allows site specific messages such as time, weather, announcements, menus, etc. to be delivered during system idle time and is overridden during an Alarm or Alert condition. For details, contact your local Simplex product supplier or email <a href="mailto:SimplexSales@InovaSolutions.com">SimplexSales@InovaSolutions.com</a>

## 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	<b>Bomb Threat</b>	Top Line, Fixed	<b>Bomb Threat</b>
			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	<b>Hostile Intruder</b>	Top Line, Fixed	<b>Hostile Intruder</b>
			Bottom Line, Continuous Scroll	An emergency has been reported in the building. Please secure your area and wait for further instructions.
3	20 sec	<b>Shelter in Place</b>	Top Line, Fixed	<b>Shelter In Place</b>
			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	<b>Alternate Exit</b>	Top Line, Fixed	<b>Evacuate-Alt</b>
			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	<b>Severe Weather Alert</b>	Top Line, Fixed	<b>Weather Alert</b>
			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	<b>All Clear</b>	Top Line, Fixed	<b>All Clear</b>
			Bottom Line, Continuous Scroll	(scrolling green) Attention please, the emergency condition has been cleared. You may return to your normal activities
7	20 sec	<b>Evacuate</b>	Top Line, Fixed	<b>Evacuate</b>
			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	<b>Alert</b>	Top Line, Fixed	<b>Alert</b>
			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	<b>Live Voice</b>	Top Line, Fixed	<b>Live Voice</b>
			Bottom Line, Continuous Scroll	A live voice announcement is currently being broadcast
32	2 sec	<b>Blank</b>	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		
Input Current	Operating Mode	Current at 16 VDC	Reference, Current @ 24 VDC
	Typical Message (Bomb Threat)	480 mA	318 mA
	Standby, Blank Display	256 mA	170 mA
	Both lines all # characters	722 mA	477 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	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	<b>NOTE:</b> 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); Separate control software can be used if it provides a continuous message; refer to Installation Instructions 579-829 for details

### Mechanical and Environmental

Viewing Distance	Dual line, 2.3" (58 mm) high messages provide typical viewing distance of up to 100 ft (30.5 m); <b>NOTE:</b> This is the format for standard programmed messages
	Single line 4.7" (119 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 <sup>2</sup> to 3.31 mm <sup>2</sup> ); terminals provide convenient in/out wiring with one wire per terminal

### Mounting Reference

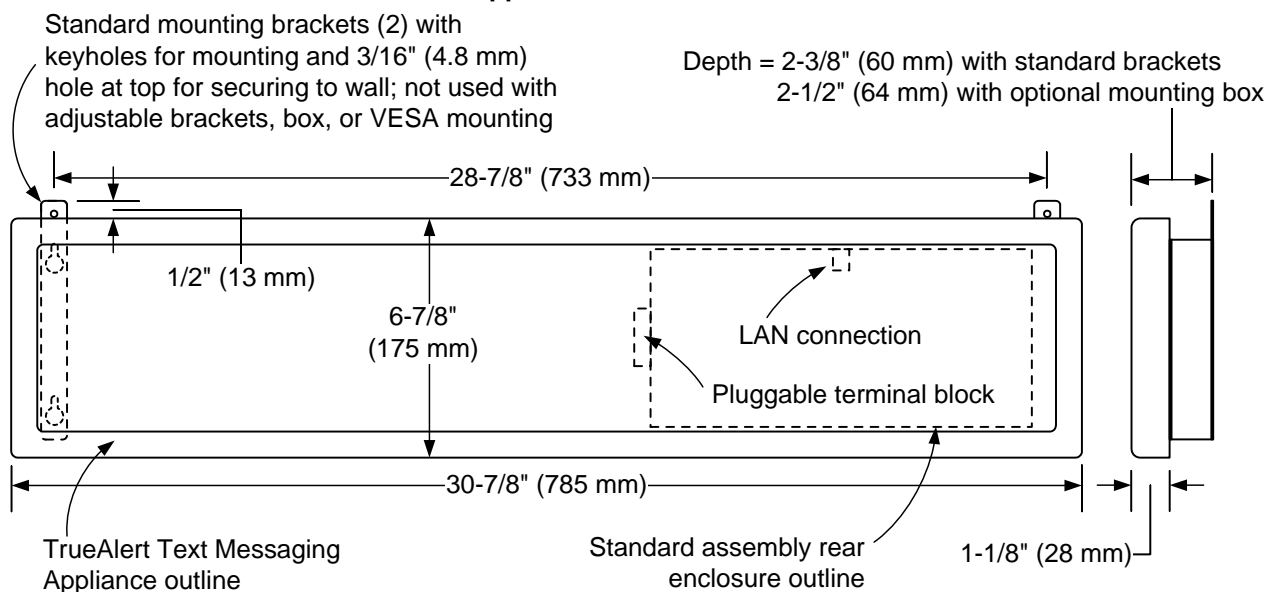
Available Methods	Standard: fixed brackets
	Optional: adjustable brackets to swivel message board down
	Optional: rear backbox for rigid conduit connection; for surface or flush box mounting as well as compatible with VESA mount or eye bolt
	Alternate: four mounting holes, 3.937" (100 mm) spacing, standard 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 <a href="http://www.peerlessmounts.com">www.peerlessmounts.com</a>
	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 579-829 for complete LED Text Messaging Appliance Instructions; mounting options are also described in instructions 579-839

### Non-Alarm LAN Interface Specifications

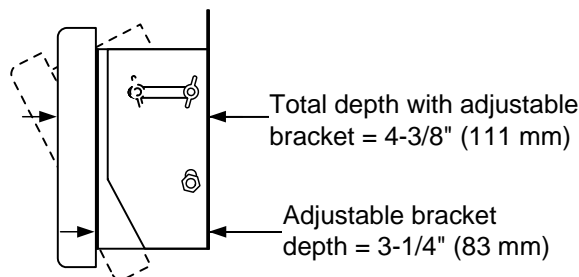
LAN Interface	TCP/IP connectivity; supports DHCP addressing; 10/100 Base T Ethernet NIC
Connection	RJ-45 jack connection located at the top of the electronics enclosure housing

## Messaging Appliance Mounting Information

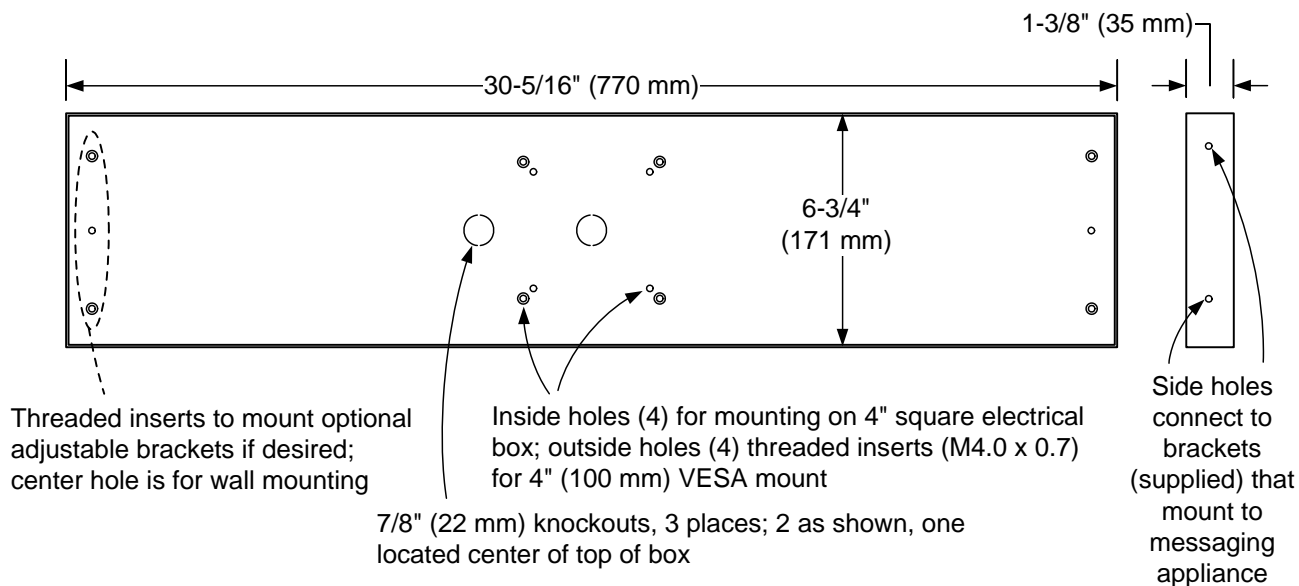
### Standard Appliance Installation Reference



### Optional Adjustable Bracket Reference



### Optional Mounting Box Detail Reference



TYCO, SIMPLEX, and the product names listed in this material are marks and/or registered marks. Unauthorized use is strictly prohibited.



Tyco Fire Protection Products • Westminister, MA • 01441-0001 • USA  
www.simplexgrinnell.com

S4907-0001-7 10/2011

© 2011 Tyco Fire Protection Products. All rights reserved. All specifications and other information shown were current as of document revision date and are subject to change without notice.