

# Model 1221 Universal Public Safety DAS Annunciator Panel Specifications & Features



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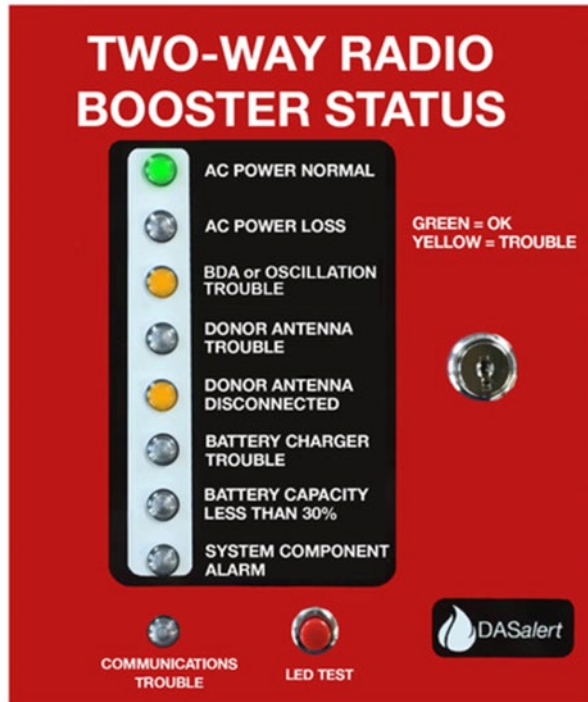
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# Model 1221 Universal Public Safety DAS Annunciator Panel



Compatible with all BDA's and BBUs



(8" H x 7" W x 3.6" D)

Meets or exceeds latest UL 2524, IFC, NFPA 1221 & Local requirements

Visible Annunciators for: \*

- Normal AC power
- Loss of normal AC power
- Battery Charger failure
- Loss of battery capacity to 70% depletion
- Donor antenna malfunction
- Amplifier (BDA) malfunction
- Donor Antenna disconnection
- System Component malfunction
- Communications and Panel Trouble
- System Oscillation (IFC Requirement)

**Audible alarm with silence switch "located inside lockable cabinet". \***

All alarm connections to DAS equipment monitored for circuit integrity to detect communications problems such as: ground faults, disconnections, shorts or severed wires\*

11 Form-C dry relay outputs provided to building's fire panel for each alarm and panel's status.

**Internal backup battery provides at least 12 hours of FAIL-SAFE panel operation in the event of complete loss of all primary AC power and DAS secondary backup battery power.**

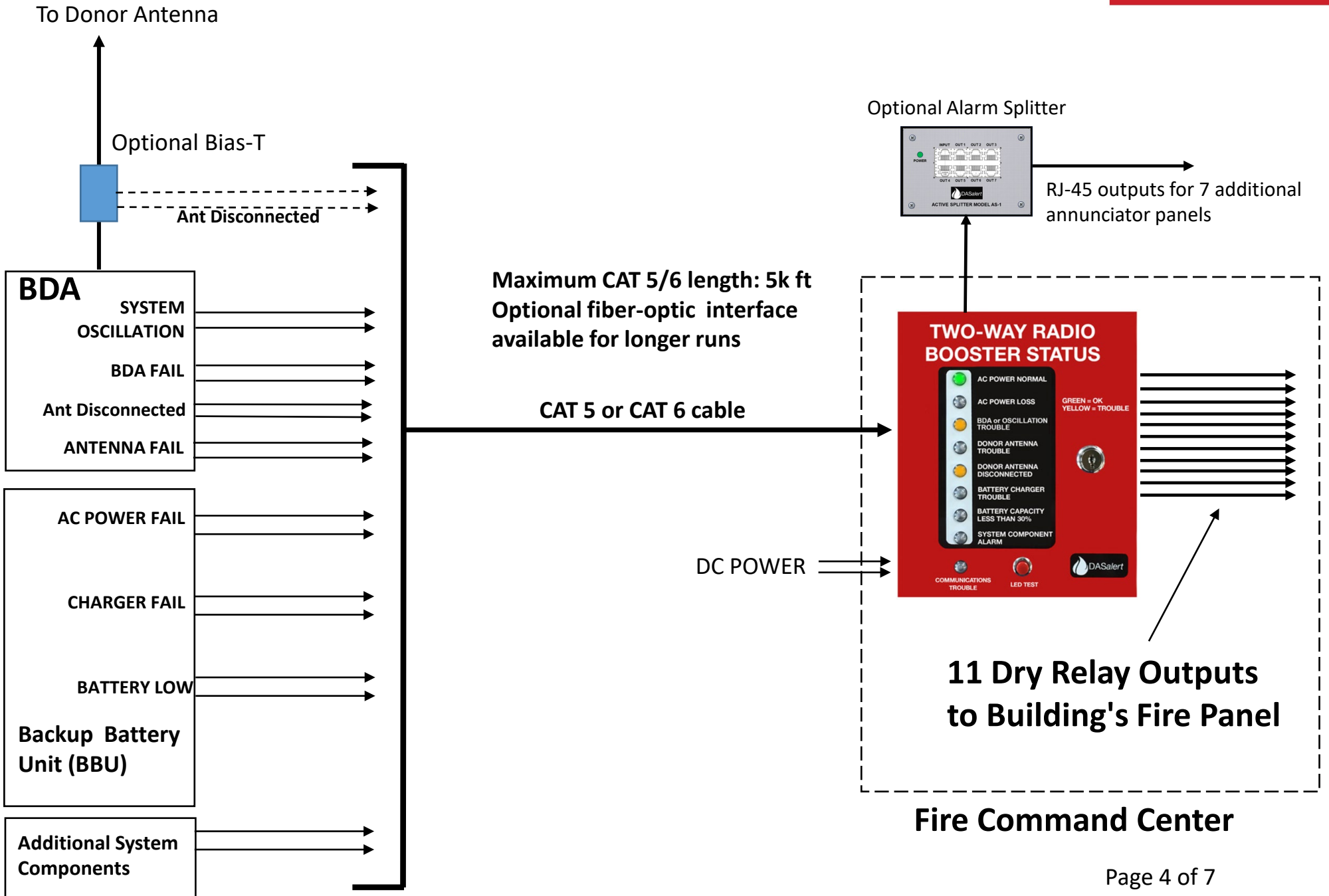
\* UL-2524 Requirement



## ADDITIONAL FEATURES

- Backwards compatible with all previous DAS Alert 1221 models. New smaller size (8.3" H" x 7.2" W x 3.7" D)
- Nine LED alarm indicators. Color codes compatible with all jurisdictions. Flashing for the color-blind.
- Works with any BDA or BBU alarm relay contact configuration ("open" or "closed" when in alarm).
- Can independently sense Donor Antenna disconnect.\*
- Compatible with indoor antenna and passive device failure detection units.
- 15 ½" removable knockout plugs (3 on each side, top, bottom and back) to accommodate any conduit installation.
- Two unique siren sounds to indicate alarms or communications problems.\*
- All alarms can be delivered from BDA and BBU on a single CAT 5/6 cable up to 5000 ft in length.
- Universal power supply: Can operate with any user supplied DC power supply between 12- 55 VDC or the supplied 120 VAC to 48 VDC wall mount power unit.
- Very low current consumption: 51 mA at 24 VDC, 24 mA at 48 VDC.
- 11 dry relay outputs to Fire Alarm Control Panel. Can be programmed to be "open" or "closed" during an Alarm
- Uses high-reliability relays immune to long-term contact corrosion that cause relay-stick after long periods of activation.
- Can be expanded to serve up to 7 additional annunciators in campus situations.
- Independent self-test for simulating any alarm or off-normal condition.
- Available accessories:
  - Surround kit for in-wall mounting.
  - Active 7 output alarm splitter with RJ45 connectors
  - Headend Relay junction box

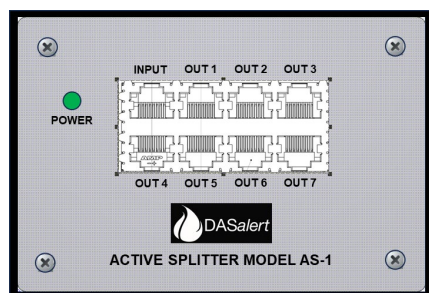
# Standard Connections from BDA & BBU (Optional Fiber interface Available)



# Multiple features to enable quick and easy installation



In-wall Flush Mounting Surround Kit



Active Alarm Splitter  
with 7 Outputs

All alarms from DAS equipment can be delivered to Fire Alarm Panel and Annunciator panel in fire command center on a single CAT 5/6 run up to 5000 ft.

The panel can operate from any DC voltage source between 12- 55 VDC or with the supplied AC / DC wall mount 120 VAC to 48 VDC power unit.

Optional in-wall flush-mounting kit available to enable installation into wall cavity

Optional Fiber-optic interface unit available for installations that require CAT 5/6 cable runs longer than 5000 ft

Optional Active Alarm Splitter unit available for campus installations that require multiple alarm annunciator panels

Multiple (15) removable knockout plugs for ½” conduit fittings are provided on panel.

(3 on each side, top, bottom and back)

Can enable any conduit installation arrangement.

# Specifications



Visible Annunciators	
Normal AC power	Green when AC power is normal, off when AC power is bad
Loss of normal AC power	Normally off, amber/yellow in alarm
DAS backup Battery Charger failure	Normally off, amber/yellow in alarm
Loss of DAS backup battery capacity to 70% depletion	Normally off, amber/yellow in alarm
Donor antenna malfunction	Normally off, amber/yellow in alarm
BDA malfunction or System Oscillation	Normally off, amber/yellow in alarm
Donor antenna disconnection	Normally off, amber/yellow in alarm
System component malfunction	Normally off, amber/yellow in alarm
Communications and panel status	Normally off, amber/yellow in alarm
Audible Annunciator	Triggers every 10 seconds when any alarm condition exists
Silence button	Housed inside lockable panel. Silences audible alarm for 24 hours. Reactivates automatically if alarm is not cleared
Built-in charger keeps panel's batteries fully charged Panel backup battery (4 AA NiMH rechargeable batteries)	Powers panel for at least 12 hours in the event of complete loss of all primary and secondary power

Alarm inputs from DAS equipment dry contact relays	
AC power status	2 or 1 wire input
DAS backup Battery Charger failure	2 or 1 wire input
Loss of DAS backup battery capacity to 70% depletion	2 or 1 wire input
Donor antenna malfunction	2 or 1 wire input
BDA malfunction	2 or 1 wire input
Donor antenna disconnection (from BDA or outboard bias -T)	2 or 1 wire input
System component malfunction	2 or 1 wire input
System Oscillation	2 or 1 wire input

Cable connection from DAS headend to panel	Standard: CAT 5 or CAT 6 cable
Max Cable length	5000 feet
Optional fiber interface	Carries all alarms on a single fiber (single mode or multimode). Max distance 20 km

## Specifications (Continued)



Dry relay alarm outputs to building's fire panel	SP relay 0.2 Amps max, 30 VDC max
Summary Alarm	
Loss of normal AC power	
DAS backup Battery Charger failure	
Loss of DAS backup battery capacity to 70% depletion	
Donor antenna malfunction	
BDA malfunction	
Donor antenna disconnection	
System component malfunction	
Communications Trouble	
System Oscillation	
Panel Trouble	
<b>Power Requirements:</b>	
Supplied 48 VDC power supply (120 VAC input) or user supplied DC power between 12- 55 VDC.	51 ma @ 24 VDC, 24 ma @ 48 VDC.
<b>Physical Characteristics</b>	
Panel:	7" W x 8" H x 3.7" D Weight: 4 Lbs.
Optional in-wall mounting surround	9" W x 10" H
<b>Meets or exceeds the foillowing specifications:</b>	
UL-2524	
NFPA 72	
NFPA 1221	
International Fire Code (IFC)	
IEC320-C14	-
UL60950-1	