

Model 1221 Universal Public Safety DAS Annunciator Panel Specifications & Features



10/1/24 Rev B

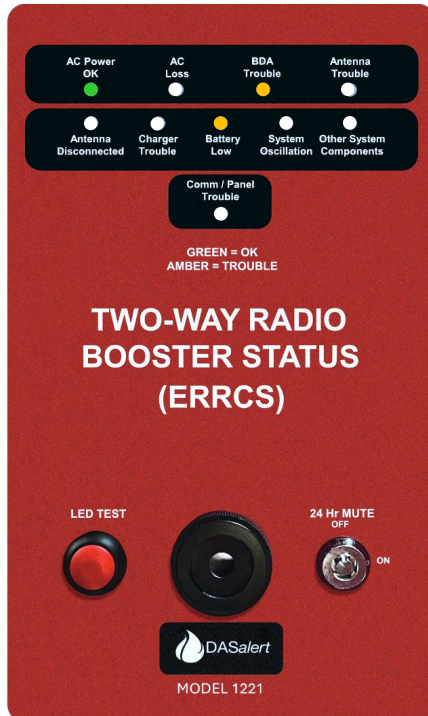
sales@dasalert.com

Phone: 303 526-1965

Model 1221 Universal Public Safety DAS Annunciator Panel



Compatible with all BDA's and BBUs



(7.9" H x 4.7" W x 3.0" 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 "Can only be activated with a key". *

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

12 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.

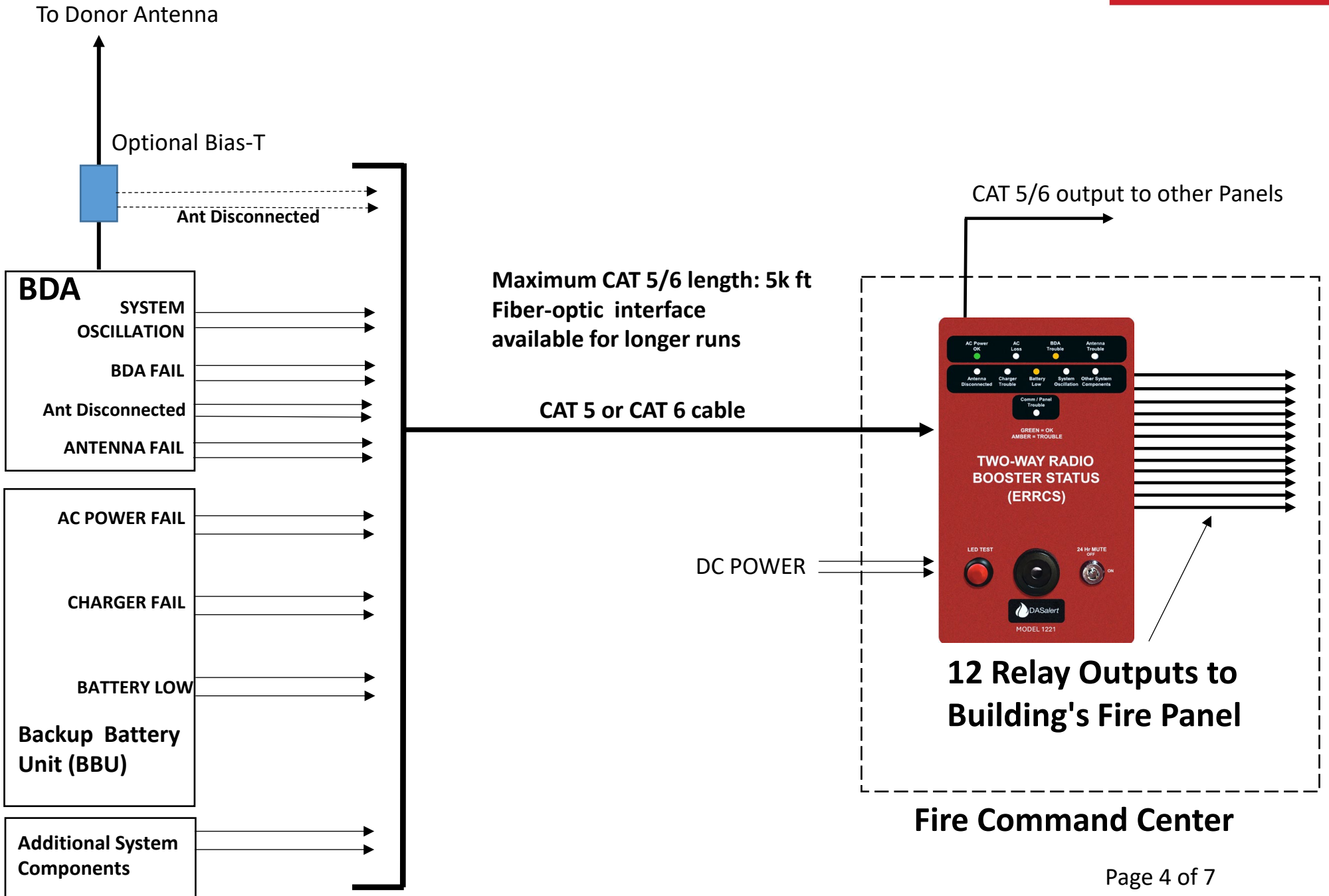
* UL-2524 Requirement



ADDITIONAL FEATURES

- Backwards compatible with all previous DAS Alert 1221 models. New smaller size (7.87" H x 4.72" W x 2.99" D).
- Ten 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.
- Nine Standard ½" conduit ports (on each side, top, bottom and back) to accommodate any conduit installation.
- Two unique buzzer sounds to indicate alarms or communication 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: 60 mA at 24 VDC, 30 mA at 48 VDC.
- 12 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 additional annunciators for large buildings and campus installations.
- Independent self-test for simulating any alarm or off-normal condition.
- Available accessories:
 - Surround kit for in-wall flush mounting.
 - Active Headend Alarm Splitter

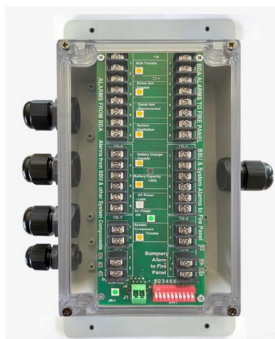
Standard Connections from BDA & BBU



Multiple Features to Enable Quick and Easy Installation



Flush Mounting in a Wall Cavity with Decorative Trim Plate



Active Headend Alarm Splitter

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 DAS Alert 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.

Fiber-optic interface unit available for installations that require cable runs longer than 5000 ft.

Optional Active Headend Alarm Splitter available for installations that require connections to remote Fire Alarm modules and additional annunciators.

Multiple (9) ½" conduit ports are provided (on each side, top, bottom and back) to accommodate any conduit arrangement.

Specifications



Visible Annunciators	
Normal AC Power	Green when AC power is normal, off when AC power is lost
Loss of Normal AC Power	Normally off, amber indicating alarm
BDA Trouble	Normally off, amber indicating alarm
Donor Antenna Malfunction	Normally off, amber indicating alarm
Donor Antenna Disconnection	Normally off, amber indicating alarm
DAS backup Battery Charger Failure	Normally off, amber indicating alarm
Loss of DAS Backup Battery Capacity to 70% Depletion	Normally off, amber indicating alarm
System Oscillation	Normally off, amber indicating alarm
Other System Component Malfunction	Normally off, amber indicating alarm
Communications and Panel Status	Normally off, amber indicating alarm
Audible Annunciator	Triggers every 10 seconds when any alarm condition exists
Mute Keyswitch	Silences Buzzer for up to 24 hours when activated
Alarm inputs from DAS equipment dry contact relays	
Loss of Normal AC Power	2 or 1 wire input
BDA Trouble	2 or 1 wire input
Donor Antenna Malfunction	2 or 1 wire input
Donor Antenna Disconnection	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
System Oscillation	2 or 1 wire input
Other System Component Malfunction	2 or 1 wire input
Cable Connection from DAS Headend to Panel	Standard CAT5 oCAT 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 outputs to building's fire panel	Single-pole -double-throw relays, 0.2 Amps max, 30 VDC max
Loss of Normal AC Power	
BDA Trouble	
Donor Antenna Malfunction	
Donor Antenna Disconnection	
DAS Backup Battery Charger Failure	
Loss of DAS Backup Battery Capacity to 70% Depletion	
System Oscillation	
Other System Component Malfunction	
Communications Trouble	
Panel Battery Bad or Not Installed	
DAS Alert Panel Power loss	
Summary Fault	
Power Requirements:	
Supplied 48 VDC power supply (120 VAC input) or user supplied DC power between 12 -55 VDC	60 mA @ 24 VDC, 30 mA @ 48 VDC
Physical Characteristics	
Panel	4.8" W x 7.9" H x 2.99" D Weight: 1.75 Lbs
Optional in-wall mounting Surround	8" x 11"
Meets or exceeds the following specifications:	
UL-2524	
NFPA 72	
NFPA 1225	
IFC	
IEC320-C14	
UL60950-1	
NEMA-4	
UL listed E194432 (industrial control panel)	