

SA900 Series

2-Tone / DTMF Station Alert Controller

SA951 Station Alert Controller



- 2-Tone, Single Tone QC-II Tone Decoder & DTMF Decoding
- Audio Detect Trigger via Radio or Pager Audio Input
- COR Alert Trigger (Useful for Talkgroup Dispatching)
- 5-Pin DIN port for Secondary Alerting by Motorola Minitor, Unication G-Series Pagers or NOAA Weather Radios
- 3.5mm Audio input jack
- 3.5mm PA Output Jack for Alert and Radio Audio Out to PA
- 4 mappable Input triggers for door bells, Manual Alert Activations or other external triggers
- Monitor Mode or Alert Mode Switchable
- 12VDC Operation Makes Adding Lights and other Notification devices simple and affordable.
- 8 Fully Configurable Outputs w/ Switched 12V+, Switched Ground or Dry Relay Contact (Jumper Selectable per Relay)
- Removable Terminal Plugs for Easy Connection
- USB Programmable
- Works with Conventional, P25 and DMR Radio Systems

The SA951 Advanced Alert Controller is a durable, reliable station alert controller designed to meet the needs of First Responders when every second counts.

This Controller Alerts First responders quickly and efficiently around the station when a call is received. The Controller is designed to decode 1 & 2-Tone QCII or DTMF tones on Conventional VHF & UHF frequencies or P25 Talkgroups. Radio Administrators can seamlessly interface this controller into an existing base station radio with the DB9 Radio Interface Port. 911 Systems LLC also offers compact Conventional & DMR VHF or UHF Radio option that can mount directly to the SA951 housing.

Each 1 or 2-Tone (QC-II) Set, DTMF Set, Input Trigger and Pager Port can enable specific output ports for Automation, power lights and/or other notification devices and play custom audio over your station speakers, followed by live audio of dispatch information if you choose. Heart Safe alerting is easy to accomplish with user selectable / loadable audio files.

Multi-Agency Alerting is made easy with the included Unication / Motorola Pager 5-Pin DIN Interface. The Pager Interface allows for expanded alerting capabilities such as notification of mutual aid calls that may be dispatched on a separate radio system or even to connect a weather radio for All Hazard Warnings.

Not only does the SA951 Controller notify First Responders in the Firehouse it can also send an Audio Transmission back to the dispatcher so they know that a specific alert system or siren activated using the Transpond Function. This feature allows the user to set a pre-programed audio message to transmit back through the connected radio to the dispatcher.

The SA951 when paired with a user provided radio or Optional Maxon SD Series Radio is a powerhouse station alert controller with all possible features to enhance and expedite emergency responses to your community.

SA951 Station Alert Controller

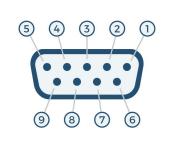


Pre-Release Specifications Listed Below are Subject to Change

SPECIFIC

INPUT / OUTPUT (I/O'S)

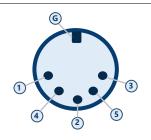
Radio Port (DB9 Female)



- 1) Data/Audio Out
- 2) Data/Audio In
- 3) PTT
- 4) Ground
- 5) +12V
- 6) COR
- 7) N/C
- 8) N/C
- 9) N/C

Direct Connection to Maxon SD125 and SD170 Series Radios

Pager Port (5-Pin DIN Female)



- 1) Relay Closure A+
- 2) Audio In
- 3) Relay Closure B+
- 4) N/C
- 5) N/C
- G) Ground
- † Dry Relay Contact Closure on Pager

Direct Connection to Unication G Series and Motorola Minitor Amplified Chargers

Audio Detect Circuit (Jumper Sel.)	Radio DB9 Pin 2 / Audio In Jack or Pager Audio DIN Pin 2
Audio Input (Audio Only Tone Decode)	1/8" (3.5mm) Stereo Jack
PA Output (Alert Audio & Radio to PA)	1/8" (3.5mm) Stereo Jack
4X Input Triggers	Dry Relay Closure, 12V+ or GND
8X Outputs (Jumper Selectable Each)	Rated 5A at 12VDC Each (Fused)
	Switched 12VDC, Switched
	Ground or Dry Relay Contact
PA PTT A / B (To Control PA Amp)	Rated 1A at 12vdc
	Dry Relay Contact
Monitor Switch	Ground to Monitor Radio RX

The Pager input can also be used for connecting the following:

- 1) weather radio for Severe Weather Alerts (Kit WX-1 Available Upon Request).
- 2) Desktop Microphone with an optional Pre-Alert Audio Each Key up
- 3) Audio Detect Input (Cable VOX-1)
- 4) Other Relay Controlled Notification Devices Such as FS Informer

GENERAL		
Power Requirement	12VDC Nominal	
Current Drain in Standby Mode	TBD	
	TBD	
Max Current Input (5.5x2.5mm Barrel)	5 Amps @ 12VDC	
Max Current Input (Phoenix Terminal)	12 Amps @ 12VDC	
Dimensions (w/o Terminal Plugs)	6.65 x 6.99 x 2.41 ln.	
Dimensions (w/ Terminal Plugs Installed)	7.15 x 6.99 x 2.41 ln.	
Operating Temperature	-22° to 140°F (-30° to 60° C)	
Weight	2 lbs. 8 Oz. (1137 g.)	
2-Tone Decoder		
Decodable Modulation Type(s)	Conventional & P25	
Two-Tone Sets	12 (No Gap) + 1 Cancel Tone	
Single or Long Tones	6	

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Two-Tone Sets	12 (No Gap) + 1 Cancel Tone
Single or Long Tones	6
Relay K1-K8 Activation	Set Per Tone Pair
Alert Audio after Decode	255 Audio Files to Choose
Minimum Decode Tone Frequency	260hz
Maximum Decode Tone Frequency	3500hz
Min. Programmable Tone Length	0.1 Second Each
Max. Programmable Tone Length	9.9 Seconds Each

DTMF Decoder		
DTMF Activation Sets	8 Activation / 1 Cancel	
Relay K1-K8 Activation	Set Per DTMF Set	
Alert Audio after Decode	255 Audio Files to Choose	
Maximum DTMF Tones Per Set	11 Digits	
Decodable DTMF Code-Set	#,*,0,1,2,3,4,5,6,7,8,9,A,B,C,D	

Alert Audio Player	
Storage Media (Internal)	MicroSD Card 4GB Included
Audio Format	MP3
Sample Rates	8/11.025/12/16/22.05/24/32/ 44.1/48khz
Audio File Playback Capacity	255 Audio Files