



SA900 Series

2-Tone / DTMF Station Alert Controller

SA951 Station Alert Controller



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-programmed 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.

- **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**

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Pre-Release Specifications Listed Below are Subject to Change

SPECIFICATIONS

INPUT / OUTPUT (I/O'S)		GENERAL	
Radio Port (DB9 Female)		GENERAL	
	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	Power Requirement	12VDC Nominal
	Direct Connection to Maxon SD125 and SD170 Series Radios	Current Drain in Standby Mode	TBD
Pager Port (5-Pin DIN Female)		Max Current Input (5.5x2.5mm Barrel)	5 Amps @ 12VDC
	1) Relay Closure A+ 2) Audio In 3) Relay Closure B+ 4) N/C 5) N/C G) Ground <i>* Dry Relay Contact Closure on Pager</i>	Max Current Input (Phoenix Terminal)	12 Amps @ 12VDC
	Direct Connection to Unication G Series and Motorola Minitor Amplified Chargers	Dimensions (w/o Terminal Plugs)	6.65 x 6.99 x 2.41 In.
Audio Detect Circuit (Jumper Sel.)		Dimensions (w/ Terminal Plugs Installed)	7.15 x 6.99 x 2.41 In.
Radio DB9 Pin 2 / Audio In Jack or Pager Audio DIN Pin 2	Radio DB9 Pin 2 / Audio In Jack or Pager Audio DIN Pin 2	Operating Temperature	-22° to 140°F (-30° to 60° C)
Audio Input (Audio Only Tone Decode)	1/8" (3.5mm) Stereo Jack	Weight	2 lbs. 8 Oz. (1137 g.)
PA Output (Alert Audio & Radio to PA)	1/8" (3.5mm) Stereo Jack	2-Tone Decoder	
4X Input Triggers	Dry Relay Closure, 12V+ or GND	Decodable Modulation Type(s)	Conventional & P25
8X Outputs (Jumper Selectable Each)	Rated 5A at 12VDC Each (Fused)	Two-Tone Sets	12 (No Gap) + 1 Cancel Tone
	Switched 12VDC, Switched Ground or Dry Relay Contact	Single or Long Tones	6
PA PTT A / B (To Control PA Amp)	Rated 1A at 12vdc	Relay K1-K8 Activation	Set Per Tone Pair
Dry Relay Contact	Dry Relay Contact	Alert Audio after Decode	255 Audio Files to Choose
Monitor Switch	Ground to Monitor Radio RX	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

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