

# ARMADA®

## EAMSAU400 - A400 Hand-Held Siren



Please see next page for Technical Specifications

### ⚠ WARNING

- HIGH CURRENT interconnects must be properly terminated. Poor crimp quality can cause heat build-up and fire. Follow crimp connector manufacturer instructions.
- DO NOT install this product or route any wires in the Air Bag Deployment Zone. Refer to vehicle Owner's Manual for deployment zones.
- Do NOT use system to disconnect headlights, brake lights or other safety equipment.
- Unit may become hot to touch during normal operation.
- Failure to properly install connectors, fuses or wiring may cause vehicle failure or fire.
- Installation must only be performed by trained technician. Installer must determine vehicle wiring configuration and proper integration of system.
- Use proper wire gauge. All power wires connecting to positive (+) or negative (-) battery terminal or local chassis ground (-) must be sized to supply at least 125% of max. current and properly fused at power source.
- Install protective grommets when routing wire through firewall or metal.

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### NOTICE:

Installers and users must comply with all applicable federal, state and local laws regarding use and installation of warning devices.

*Improper use or installation may void warranty coverage.*

To review our Limited Warranty Statement & Return Policy for this or any SoundOff Signal product, visit our website at [www.soundoffsignal.com/tech-services/returns/](http://www.soundoffsignal.com/tech-services/returns/).  
If you have questions regarding this product, contact **Technical Services**, Monday - Friday, 8 a.m. to 5 p.m. or after hours 5 p.m. to 8 p.m. ET at 1.800.338.7337 (press #4).  
Questions or comments that do not require immediate attention may be emailed to [techservices@soundoffsignal.com](mailto:techservices@soundoffsignal.com).

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### Introduction:

The A400 siren uses an easily concealable remote hand held controller coupled to an electronic siren, all designed to meet the needs of the emergency vehicles. A400 maximum power is 100w. It has air horn, audio input, and park kill function. There are 4 auxiliary controls. Four light control switches can drive warning light of 10A current. A400 siren has two short tones and 12 long tones.

### Standard Features:

1. Primary Tones: Police (F), Gendarmerie (F), Pompiers (F), UMH (F), Ambulance (F), Polizia (I), Ambulanza/Vigili del Fuoco (I), 2 Ton Police (N), 3 Ton Fire Brigade (N), Feuerwehr (Fire Brigade) (G), Pistensignal (Runway Signal) (G), UK Fire Brigade, Air Horn, MANUAL
2. Vehicle Light Control Buttons - 4 Levels
3. PA with Built-In Noise Cancelling Microphone
4. Radio rebroadcast
5. Stand-By
6. Park Kill
7. Horn Ring Transfer
8. Day mode/Night mode

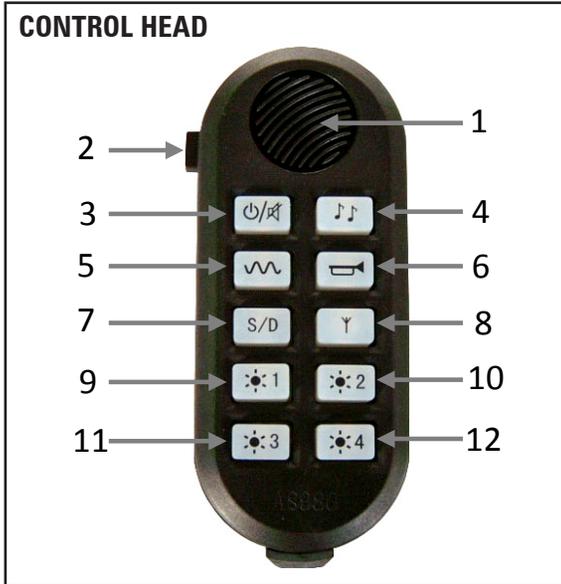


### ⚠ WARNING

Sirens produce loud sounds that may damage hearing:  
- Roll up windows.  
- Wear hearing protection.  
- Use only for emergency response.  
- Avoid exposure to siren sound outside of vehicle.

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### OPERATION

#### CONTROL HEAD:

1. Microphone: The microphone for talking.
2. PTT (Push To Talk): The PA portion of the siren is activated each time the microphone PTT button is pressed. When pressed, the PA function overrides any active siren tone and routes the PA audio through the siren speaker. When the PTT button is released, the siren will automatically switch back to the siren tone (if any) that was active when the button was pressed.

3 Power/STBY: Press this button and hold for 1 second. Controller backlight is on and siren power is on. Then press this button and hold for 2 seconds. Siren power will be off. It also works as standby button. When the siren tone is on, press this button and all tones will stop. The siren will return to standby status.

4. "SIR1": When SIR1 is pressed once, the siren will produce the preset tone. If you press SIR1 again, the purple light will go off and the tone sound stops. **Setting method:** Press and hold Light 4 (Button 12) and then press SIR1. The tone will be changed when SIR1 is pressed, one tone is changed every time. Pressing SIR1 will cycle through the tones.

5. "SIR2": When SIR2 is pressed once, the siren will produce the preset tone. If you press SIR2 again, the purple light will go off and the tone sound stops. **Setting method:** Press and hold Light 4 (Button 12) and then press SIR2. The tone will be changed when SIR2 is pressed, one tone is changed every time. Pressing SIR2 will cycle through the tones.

6. AIR HORN/MANUAL: When pressed once, the siren will produce the preset tone. This button overrides any other siren tone being produced. **Setting method:** Press Light 4 (Button 12.) At the same time, press AIR HORN/MANUAL. The tone will be changed when AIR HORN/MANUAL is pressed, one tone is changed every time. Pressing AIR HORN/MANUAL will cycle through the tones in the order as follows: AIR HORN, MANUAL. The setting tone will be saved when releasing Light 4 (Button 12.) Default tone of AIR HORN/MANUAL is AIR HORN.

7. Day/Night: Day mode/Night mode switch button. When the red indicating light is on, the siren is in night mode. The siren will save the current mode when the power is off.

8. RRB: When pressed, the radio rebroadcast function overrides any active siren tone. When the RRB button is released, the siren will automatically switch back to the siren tone (if any) that was active when the button was pressed.

9-12. Warning light control: Press the corresponding button, its backlight will change to purple, which indicates that the controlled warning light is on. Press this button again and the purple light will go off. The controlled warning light will be off too. Button designations are as follows:

**NOTE: THE TONE CHART IS LOCATED ON PAGE 3.**

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TECHNICAL SPECIFICATIONS	
Input Voltage:	10-16Vdc
Operating Current (Day):	11 Amps@13.6Vdc (100W SPKR)
Operating Current (Night):	2 Amps@13.6Vdc (100W SPKR)
Operating Temperature:	-30°C to +65°C
Standby Current:	Less than 130mA
<b>Dimensions</b> Handheld controller: Amplifier:	1.2" x 2" x 4.9" 1.9" x 4" x 6"
Weight Siren (approx):	2.2lbs.
Weight Controller (approx):	0.4lbs.
Light Control:	(4 levels) Each level - 10A Max. - Fused Internally
Warranty:	5 Years

BUTTON	LIGHT SWITCH
9	1
10	2
11	3
12	4

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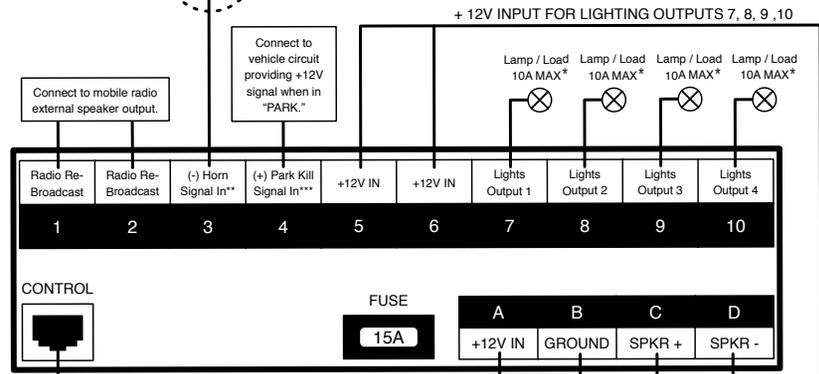
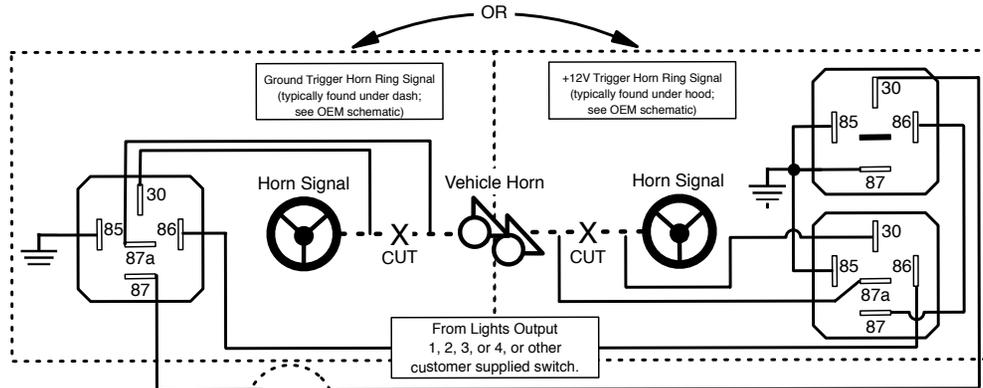
## EAMSAU400 - A400 Hand-Held Siren

TONES						
STONE	FREQUENCY (Hz)	DURATION (s)	FREQUENCY 2 (Hz)	DURATION (s)	STONE USE	SPEC
1	416	0.13	520	0.21	AMBULANCE (FRANCE)	420Hz, 516Hz, 420Hz, +/-5% 1 CYCLE = 2s WITH 3 TONES IN 0.5s (420/516/420) AND 1.5s SILENCE
	427	0.17	PAUSE	1.47		
2	485	0.74	641	0.74	POLIZIA (I)	466Hz/622Hz T1=780ms T2=790ms
3	400	0.97	667	0.18	AMBULANZA/VIGILI DEL FUOCO (I)	392Hz/660Hz T1=1010ms; T=T3=T4=165ms
	400	0.18	667	0.17		
4	490	0.74	667	0.74	2 TON POLICE (NETHERLANDS)	493Hz/659Hz T=3s Tf1=Tf2=0.75s
5	437	0.75	515	0.75	3 TON FIRE BRIGADE (NETHERLANDS)	437Hz/510Hz
	595	0.75				
6	409	0.49	537	0.99	FEUERWEHR (FIRE BRIGADE) (G)	
	409	0.49	537	0.99		
	SILENCE	0.99				
7	537	0.51	406	0.95	RETTUNGSDIENST (EMERGENCY SERVICE) (GERMANY)	
	537	0.51	406	0.95		
	SILENCE	1				
8	438	0.31	574	0.3	POLIZEI (GERMANY)	
	438	0.11	574	0.11		
	438	0.11	574	0.12		
	438	0.11	574	0.57		
	SILENCE	0.99				
9	610	0.74	PAUSE	0.99	PISTENSIGNAL (GERMANY)	
10	446	0.74	610	0.74	UK FIRE BRIGADE	
11	446	0.528	610	0.528	POLICE (FRANCE)	435Hz, 580Hz, +/-2% 50-60 cycles/min.
12	446	0.54	757	0.54	GRENDARMERIE (FRANCE)	435Hz, 732Hz, +/-2% 50-60 cycles/min.
13	STANDBY				-	

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## WIRING DIAGRAM



\*\*Horn Ring Signal connection requires customer supplied relays as shown. Use ISO style changeover relays, where 87 is normally open, 87a is normally closed, and 30 is common.

\*\*\* To ensure proper function, Park Kill signal input should be transferred using a relay. Connect as follows:  
 Terminal 30 to +12V battery, fused at 1A  
 Terminal 87 to siren connection 4, Park Kill Signal In  
 Terminal 86 to vehicle PARK signal  
 Terminal 85 to opposite potential of vehicle PARK signal.

\*Fused Internally



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