

# WPA Series Sirens & Controls

WATER-RESISTANT 100 WATT ELECTRONIC SIRENS WITH PA



**WPA Series Sirens and Controls are built water-resistant for rugged use and environmental exposures typical of motorcycle and marine applications.**

## WPA112 AND WS321 AMPLIFIER FEATURES

- Three tones: Wail, Yelp, Piercer.
- Public Address, standard.
- PA override in all functions.
- Manual override.
- Emergency light switches.
- 100 watt.
- Hands-Free capability. Cycle through three siren tones using the horn button, manual control or auxiliary switch.
- Flexibility; WPA remote amplifier works with WPA1, WPA2, WPA3FM and WPA3BM Control Heads (sold separately) or customer supplied switching.
- Weathertight, extruded aluminum amplifier housing.
- Easy to install with pre-wired waterproof connector and 8" wiring pigtail. Water-resistant in-line fuse/holder provided.

## MODELS

**WPA112:** 100 watt remote amplifier.  
**WS321:** 100 watt siren for Harley-Davidson® police package includes mating harness. Optional microphone available.

## WPA1, WPA2 AND WPA3 CONTROL HEAD FEATURES

- Compact WPA Series control heads have fully water-resistant, sealed toggle & rotary switches, as well as PA volume control.
- Three position, center-off, toggle switch on WPA1 & WPA2 enables the control for siren only functions or combined siren and light operation (light operation is enabled by low power control).
- Designed for motorcycle or marine applications.
- 24 month factory direct warranty.
- Removable noise cancelling microphone included.

## MODELS

**WPA1:** Control head for handlebar or surface mounting, 7-1/2' cable and connectors.

**WPA2:** Control head with flush mounting bracket, 20' cable and connectors.

**WPA3FM:** Full function control head with waterproof switches and microphone jack, flush mount. Includes removeable microphone and 20' cable.

**WPA3BM:** Full function control head with waterproof switches and microphone jack, bail mount. Includes removeable microphone and 20' cable.



WPA1 installed in a vehicle.



WPA1 installed in a boat.

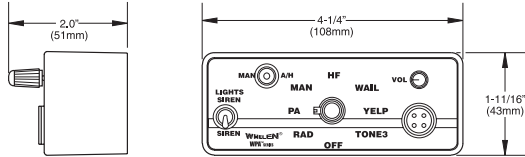


All Whelen Products are proudly made in the U.S.A.®

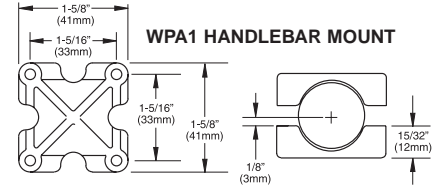
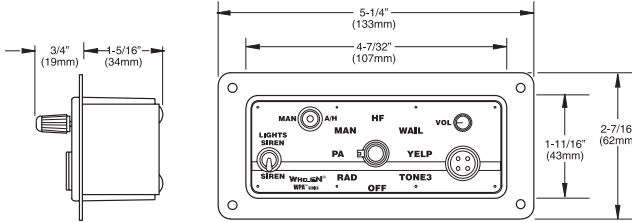
**WHELEN®**  
 Engineers for the Emergency Warning Industry

# WPA SERIES SPECIFICATIONS

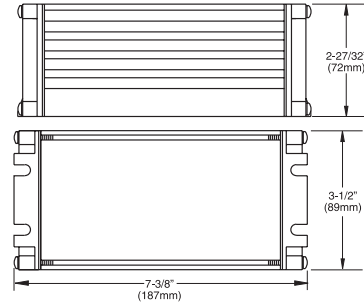
**WPA1**



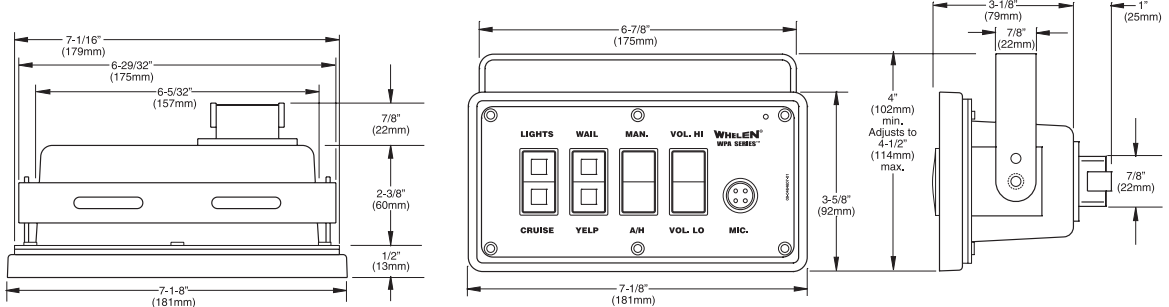
**WPA2 with Removable Flush Mount Bracket**



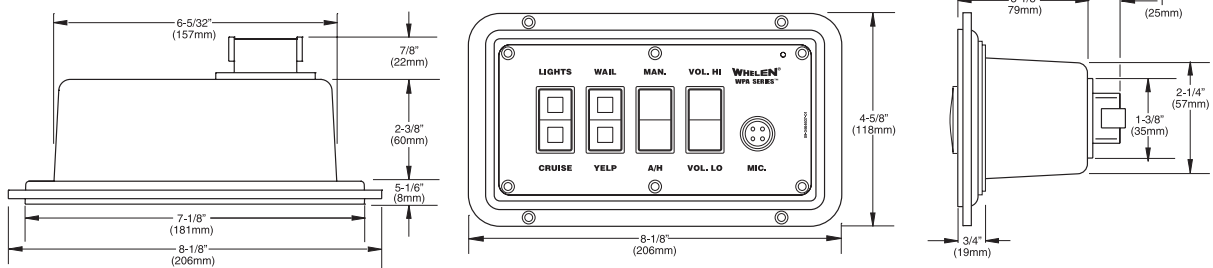
**WPA112 & WS321**



**WPA3BM with Bail Mount**



**WPA3FM with Flush Mount**



## ELECTRICAL, PHYSICAL AND ENVIRONMENTAL DATA

Input voltage.....	12.8VDC +/-20%
Polarity.....	negative ground
Polarity protection.....	Diode / Fuse
Output power.....	100 watts, WPA112 / 58 watts, WS321
Output load.....	one 11 0HM Speaker
Input current (OFF).....	0 ma (off)
Input current (ON).....	8 amps (max) @12.8 VDC +/-20%
Standby current.....	500 ma (max) @12.8 VDC +/-20%
Output current (aux lighting).....	500 ma (max) @12.8 VDC +/-20%

Fuse.....	10 amp auto fuse
Fuse mounting.....	spade type, covered in-line connector
Output short protection.....	500 ma auto reset
Horn / ring control.....	12.8VDC +/-20% or ground
Weight: WPA112 / WS321 remote amplifier.....	2.9 lbs / 1.32 kg
WPA1 / WPA2 control head.....	1.25 lbs / .5 kg
Operating temp.....	-30°C TO +60°C
Operating humidity.....	0-100% condensing
Connector, WPA112/WS321.....	1-15 pin AMP with 8" wiring pigtail

## SIREN TONES

Tone .....	Frequency .....	Sweep Rate
Wail .....	800Hz - 1750Hz ..	12 Cycles / Minute
Yelp .....	800Hz - 1750Hz ..	180 Cycles / Minute
Piercer* .....	800Hz - 1750Hz ..	800 Cycles / Minute
Hi/Low* .....	650Hz - 1750Hz ..	50 Cycles / Minute
Air Horn .....	600Hz - 1200Hz ..	Composite

\* Hi/Low tone may be substituted for Piercer tone, if required. Specify on ordering.

## WPA1 & WPA2 OPERATION

- 3 siren tone Hands-Free cycle
- Tone 3 is Piercer
- Manual siren stop
- Piercer overrides Yelp
- Wail with Yelp override (toggle)

## WPA3FM & WPA3BM OPERATION

- Pressing **LIGHTS** will engage the lights
  - Pressing **AUX** will engage the auxiliary function
  - Pressing **WAIL** will activate the siren WAIL tone
  - Pressing **YELP** will activate the siren YELP tone
  - Pressing **VERRIDE** will change the WAIL tone to YELP or change the YELP tone to PIERCER
  - Pressing **A/H** will activate your air horn.
  - Pressing **MICROPHONE VOLUME** volume can be adjusted to High, Medium or Low volume.
- This switch will only function if a siren tone is activated.



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Whelen Engineering reserves the right to upgrade and improve products without notice.

# Some back-up alarms are custom made for Whelen in Canada.