

SONNENBURG ELECTRONIC AG www.sonnenburg.de

Electronic Sirens

Modern, powerful and technologically superior. Alert entire cities in seconds and communicate importend information to their inhabitants via voice announcements. Numerous upgrades improve the capability of our sirens. Many different construction varieties guarantee an optimal acoustic radiation. Perfect quality and excellent know-how make our electronic siren to the best in it's class.







Site independency

Place your siren wherever you want, its independent from the power supply network

Economical

Reduce your running costs due to lower power consumption.

Low maintenance

Save maintenance time and costs. The siren has no moving parts.

Variable performance

Get the optimal acoustic radition due to different power levels.

Flexible alerting

Many ways to alert, e.g. live, from voice memory or by siren signals.

Made in Germany





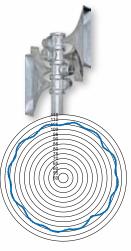
CHANGES RESERVED

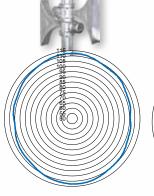
ELEKTRONIC SIREN FEATURES

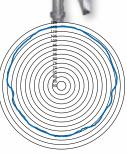
- Modular systems
- Variable siren signals with DSP (digital signal processing)
- Extrem high efficiency dB/A
- Power control of the siren signal
- Adjustment to changes in battery voltage and and speaker impedance
- Battery charging via solar cell possible
- Short-circuit proof
- Temperature monitoring
- Silent test of the speaker systems
- Automatic system test
- Status indicator
- Microprocessor-controlled function monitoring of the system
- Service software for diagnosis at site
- Two batteries
- Power output level from 300-600 W True RMS per amplifier
- Seewater resistant aluminium

ACOUSTIC RADIATION AND CONSTRUCTION

Depending on local conditions and customer requirements, various constructions variants are possible, each with its own radiating characteristics. Three of the most common types are listed below using the example of the SES-600.







SES-600-360, 107 dB(A)

SES-600-180, 109 dB(A)

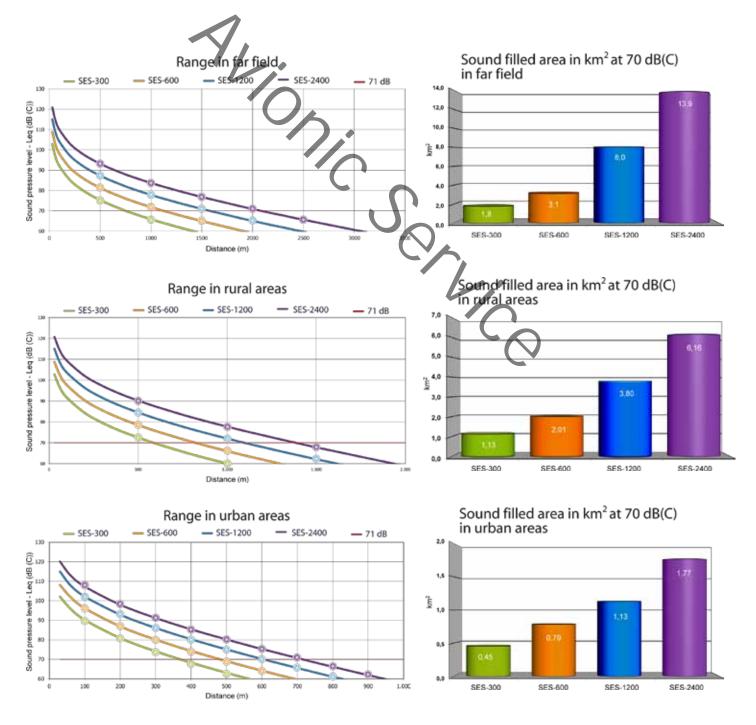
SES-600-0, 117 dB(A)

AIMING HIGH FOR YOUR SAFETY

RANGES

The geography can be roughly divided into three stages: urban, rural and far field. Due to the obstruction by buildings, forests or mountains, the sound pressure in these areas is different to some degrees. Based on the chart below you can compare the levels of individual siren types and their ranges.

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TECHNICAL DETAILS ACOUSTIC RADIATOR								
	SES-300-series	SES-600-series	SES-1200-series	SES-2400-series				
Sound pressure level in dB(A) in 30 m distance	111 dB(A) at 0° 103 dB(A) at 180°	117 dB(A) at 0° 109 dB(A) at 180°	122 dB(A) at 0°-2L 115 dB(A) at 180°	128 dB(A) at 0°-2L 117 dB(A) at180°				
Basic frequenzy	415 Hz							
Number of acoustic radiators	2	4	8	16				
Humidity	0 %- 100 %							
Acoustic raditors made of	Material ALSi7Mg0,35F- seewater resistanc aluminium alloy							
Temperatur range	-50° C to +70° C							
Screw set	V2A							
dimensions (w x h x d) in mm	0°: 610 x 1250 x 180 180°: 800 x 770 x 180	0° 610 x 2530 x 180 180°: 800 x 1410 x 180 360°: 800 x 1090 x 800	0°-2L: 610 x 2690 x 300 180°: 800 x 2690 x 180 360°: 800 x 1730 x 800	0°-2L: 610 x 5250 x 300 180°: 800 x 5250 x 180 360°: 800 x 3010 x 800				
		- 0						

TECHNICAL DETAILS ELECTRONIC

	SES-300-series	SES-600-series	SES-1200-series	SES-2400-series		
Number of amplifiers	2	2	2	4		
Power output RMS	300 W	600 W	1200 W	2400 W		
Mains voltage	230 V _{AC}					
Power input in stand-by mode	3,5 🗸 🗛					
Power input at battery charge	93 W					
Number of potential free inputs	3					
Number of potential free outputs	optional 2 potential free outputs for summing fault and alert active max. 24 V / 100 mA					
Status identification via service interface	all status identifications can be displayed at a service interface via a service program					
Battery voltage /-capacity (C20)	24 V / 26 Ah	24 V / 40 Ah	24 V / 60 - 154 Ah	24 V / 80 - 154 Ah		
Battery capacity	12 days with 20 alerts à 1 min.	18 days with 20 alerts à 1 min.	24 Tage with 20 alerts à 1 min.	70 days with 20 alerts à 1 min.		
Temperature range electronics	-40° C to +70° C					
Temperature range batteries	-25° C to +60° C					
Protection class	IP 56					
Cabinet dimension (w x h x d) in mm	600 x 600 x 210	600 x 600 x 210	600 x 1000 x 250 / 800 x 1200 x 300	600 x 1000 x 250 / 800 x 1200x 300		
Weight in kg	70	70	88 - 147	115 - 147		
Colour	RAL 7035					

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Avionic sale and customer service Two-way radio and telecommunication technology

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