SONNENBURG
SWISS AG

SES-2 2000-A+AW CH2

Electronic sirens are increasingly used for mass warning systems due to their advantages of low energy consumption and low maintenance effort. Their modular construction offers individual structure and power stages possibilities.

ADVANTAGES & FUNCTIONS

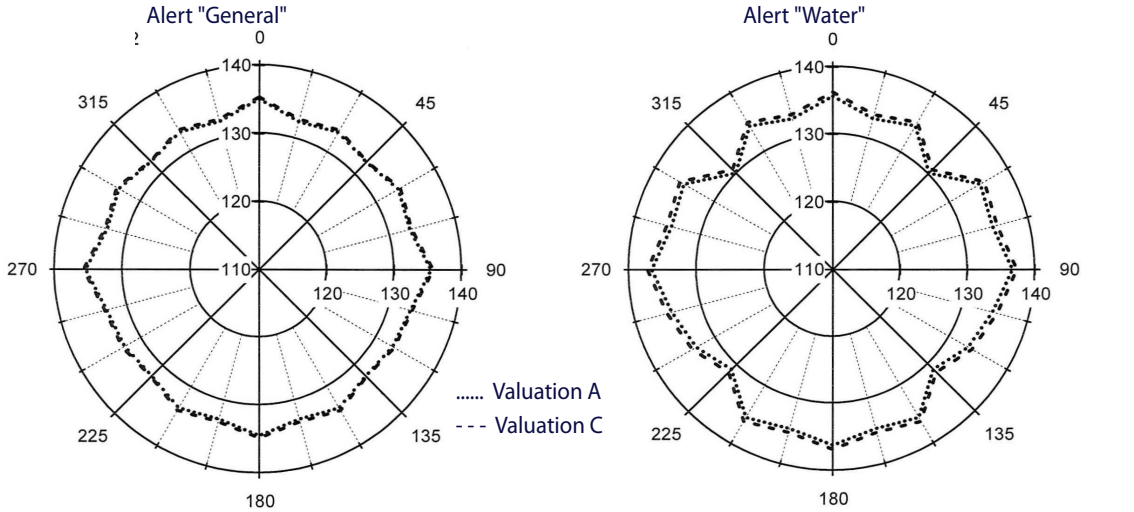
- modular system
- variable siren signals with digital signal processing
- extremely high efficiency dB/W
- power regulation of the siren signal
- compensation of battery voltage changes and acoustic radiator impedance
- short-circuit proof
- excess temperature surveillance
- silent test of acoustic radiators
- automatic system test
- status indication
- internal control unit
- system function surveillance via micro prozessor
- service programme for on-site diagnosis
- alert memory
- 2 batteries
- power output -500 W True RMS per amplifier

TECHNICAL DATA

licence number	BZS AL 11-801
IN GENERAL	
sound level in dB(A) in 30 m distance	
for alert "General"	116.3
for alert "Water"	117.7
fundamental frequency alert "General"	250 Hz / 400 Hz
fundamental frequency alert "Water"	200 Hz
number of acoustic radiators	16
humidity	0 % - 100 %
ACOUSTIC RADIATORS	
acoustic radiators made of	material ALSi7Mg0,35F - see water resistent alluminium alloy
temperature range	-50° C to +70° C
screw set	V2A
overall weight	156.2 kg
overall height	2560 mm
width x depth	830 x 830 mm

TECHNICAL DATA SES-2 2000-A+AW CH2

CONTROL UNIT	
number of acoustic radiators	4
power output RMS	2000 W
mains voltage	230 V_{AC}
1) power input in stand-by mode	3.5 V A
power input at battery charge	93 W
electric power supply FGI	24 V / 2 W
number of potential free inputs	8
number of high side transistor outputs	16
status identification via service interface	all status identifications can be displayed at a service interface via a service programme
battery voltage / capacity (C20)	24 V / 40 Ah
battery capacity	5 days with 4 signals "General" alert + 2 signals "Water" alert + 3 days energy reserve for remote control with 2 W
battery reserve	8 %
temperature range electronics	-40° C to +70° C
temperature range batteries	-25° C to +60° C
cabinet dimension (B x H x D)	600 x 600 x 300 mm
weight	150 kg
colour	RAL 7035



directional diagrammes "General" and "Water" in comparison

TEST RESULTS

	sound pressure level for alert "General"	sound pressure level (dB)*		sound pressure level for alert "Water"	sound pressure level (dB)
Valuation A	specific value at a distance of 4 m minimal level (105°) maximal level (0°) calculated specific value at 30 m	133.8 dB 132.5 dB 135.5 dB 116.3 dB	Val. A	specific value at a distance of 4 m minimal level (105°) maximal level (0°) calculated specific value at 30 m	135.2 dB 130.4 dB 136.9 dB 117.7 dB
Valuation B	specific value at a distance of 4 m minimal level (105°) maximal level (0°) calculated specific value at 30 m	134.0 dB 132.5 dB 135.8 dB 116.5 dB	Val. B	specific value at a distance of 4 m minimal level (105°) maximal level (0°) calculated specific value at 30 m	135.7 dB 131.0 dB 137.5 dB 118.2 dB

*) Average test results of several signal cycles

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