



# SES-300-XXX-ATEX

ATEX sirens are complying with ATEX applications e.g. they are especially constructed for the use in explosion endangered areas.

The siren is available in following versions:

- SES-300-M05-180-ATEX
- SES-300-M05-ECO-0-2-line-ATEX
- SES-300-M05-ECO-0-ATEX



## ADVANTAGES & FUNCTIONS

- modular system
- variable siren signals with digital signal processing
- extremely high efficiency dB(A)W
- power regulated siren signal
- compensation of battery voltage changes and acoustic radiator impedance
- short-circuit proof
- excess temperature control
- silent test of acoustic radiators
- automatic system test
- status indication
- system function control via micro processor
- service programme for on-site diagnosis
- network independent battery operation over long periods
- power output 300 W True RMS per amplifier

## TECHNICAL DETAILS

### IN GENERAL

sound pressure level in 1 m distance	119 - 126 dB(A), respectively 119,8 - 126,8 dB(C)
basic frequency	415 Hz
number of acoustic radiators	2
humidity	0 % - 100 %

### ACOUSTIC RADIATORS

acoustic radiators made of	material ALSi7Mg0,35F - see water resistant aluminium alloy
temperature range	-50° C to +70° C
screw set	V2A
overall weight	16.7 - 24.9 kg
dimensions (w x h x d)	180°: 830 x 746 x 160 mm, 0°: 630 x 1250 x 280 mm, 0° 2-line: 630 x 746 x 280 mm
protection class	IP 67
ATEX certification	Ex II 2 GD / EEx de IIB+H2 T4 / EEx de IIC T4

### CONTROL UNIT

number of amplifiers	2 @ 180° configuration, 1 @ 0°-configuration
power output RMS	2 x 150 W
mains voltage	230 V <sub>AC</sub> (option: solar electricity)
power input	3.5 V A in stand-by mode, 93 W at battery charge



Pic.1: Sample of a SES-300 ATEX siren

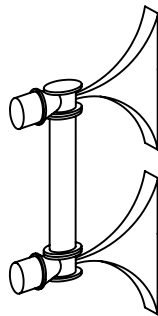
## TECHNICAL DATA SES-300-XXX-ATEX

### CONTROL UNIT

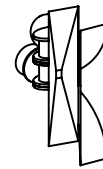
number of potential free inputs	3 + 5 optional
number of potential free outputs	optional 2 potential free outputs for sum fault and alert active max. 24 V / 100 mA
status information via service interface	all status information can be displayed at a service interface via a service programme
battery voltage / capacity (C20)	24 V / 26 Ah
battery capacity	12 days with 20 alerts à 1 min
temperature range electronics	-40° C to +70° C
temperature range batteries	-25° C to +60° C
cabinet dimension (w x h x d)	600 x 600 x 210 mm
weight / colour	64 kg / RAL 7035
protection class	IP 66 according to EN 60 529, NEMA 4 compliant



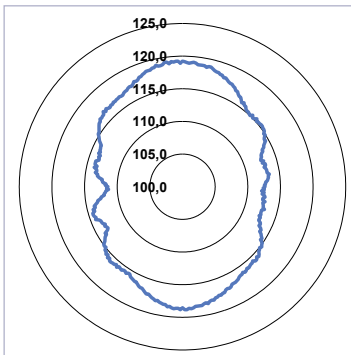
SES-300-XXX-180-ATEX



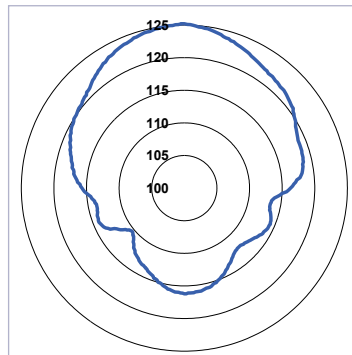
SES-300-XXX-0-ATEX



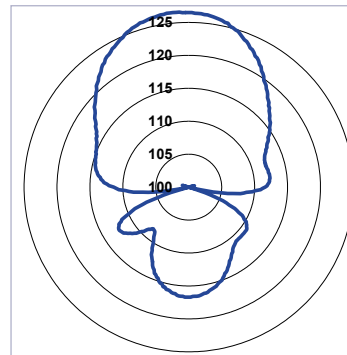
SES-300-XXX-0-2-line-ATEX  
construction variety SES-300-XXX-ATEX



SES-300-M05-180-ATEX,  
119,2 dB(A)



SES-300-M05-ECO-0-ATEX,  
125,2 dB(A)



SES-300-M05-ECO-0-2-line-ATEX,  
126,6 dB(A)

sound pressure level dB(A) - Leq @ 1 m SES-300-XXX-ATEX

### SOUND PRESSURE LEVELS AND COVERAGE SES-300-XXX-ATEX

		<b>SES-300-M05-180-ATEX</b>	<b>SES-300-M05-ECO-0-ATEX</b>	<b>SES-300-M05-ECO-0-2Line-ATEX</b>
<b>sound pressure level Leq in dB(A)</b>	Max 1 m / Av 1m	<b>119.2</b> / 115.6	<b>125.2</b> / 117.5	<b>126.6</b> / 114.9
	Max 30 m / Av 30 m	89.7 / 86.1	95.7 / 88	97.1 / 85.4
<b>range in m @ 71 dB(A)</b>	Max in far field	260 m	470 m	490 m
	Av in far field	180 m	220 m	165 m
<b>coverage in m<sup>2</sup> @ 71 dB(A)</b>	in far field	101.700 m <sup>2</sup>	152.000 m <sup>2</sup>	85.000 m <sup>2</sup>