TAUSEC s.r.o.
Tel.: +421 903 81 95 98
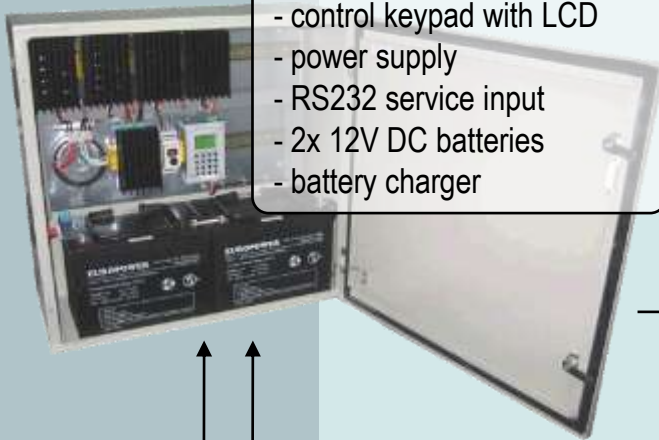Fax.: +421 55 643 29 58
www.tausec.com

GUARDIAN POWER MkI

Electronic sirens of big acoustic output used for large area warning (giant voice). The **GUARDIAN** sirens have class D amplifiers, power backup, can reproduce voice from microphone input and from siren memory and have alluminium alloy horns.

Siren box with electronics

- amplifiers 300W
  (acc. to the siren type)
- tone generator
- control keypad with LCD
- power supply
- RS232 service input
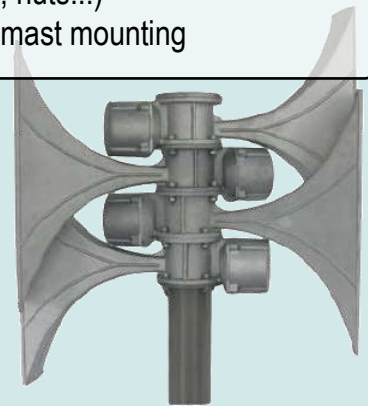- 2x 12V DC batteries
- battery charger

Aluminium alloy horns

- alluminium horns with drivers
  (150W pairs)
- cables and assembly accesories
  (bolts, nuts...)
- steel mast mounting

Audio output

230V AC   Control inputs

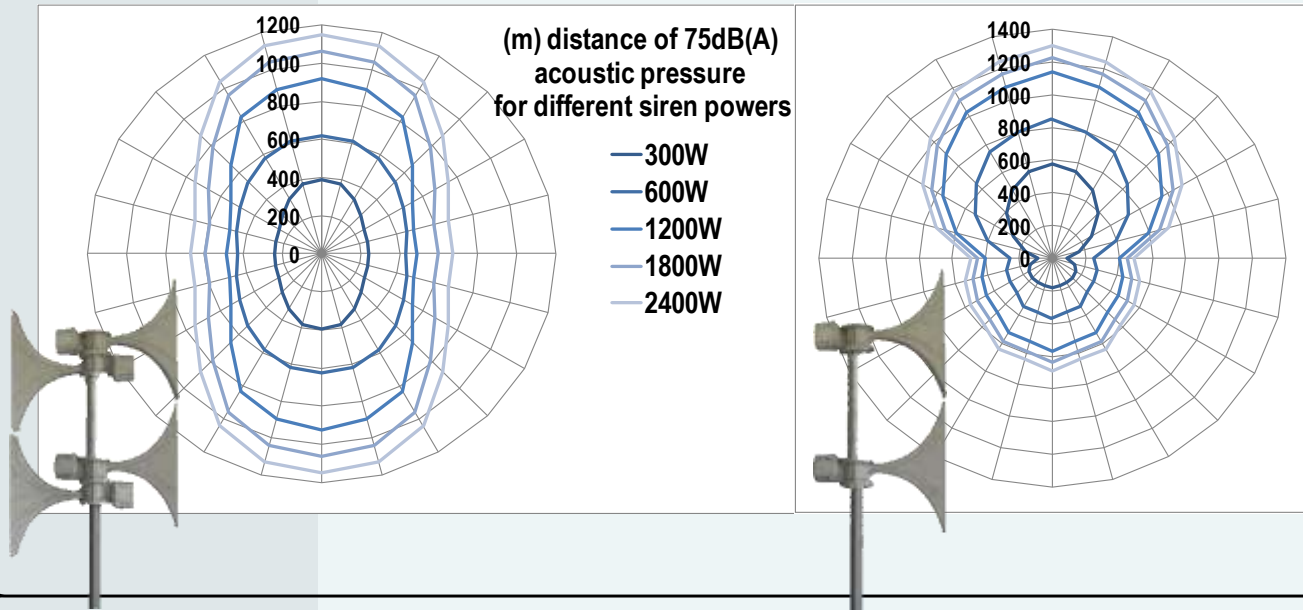| Guardian electronic siren	300W	600W	900W	1200W	1800W	2400W
Acoustic power at 30m	103dB(A)	109dB(A)	112dB(A)	115dB(A)	118dB(A)	121dB(A)
Number of horns	2	4	6	8	12	16
Number of amplifiers	1	2	3	4	6	8
Power supply	230V					
Power backup	2x12V (33-115Ah)					
Loading current for batteries	3A					
No.of alarms / battery power	20x 3minutes alarms (after 24 hours without 230V power supply)					
Standby mode / battery power	2 weeks					
Number of alarm tones	12 (user defined)					
Voice input	in built microphone					

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Electronic sirens GUARDIAN – Acoustics

(m) distance of 75dB(A) acoustic pressure for different siren powers

— 300W
— 600W
— 1200W
— 1800W
— 2400W

Note: displayed diagram shows the acoustic characteristics for plain terrain with no obstacles blocking the audio signal from spreading. For a terrain with hills, tall trees or buildings the acoustic characteristics will be different.

Tone generator

- 12 pre-defined sounds
- internal memory 2MB, custom sounds in .wav file format
- possible extension to 8MB

Macro

- sequence of sounds stored in the memory is called Macro
- user can define custom Macros, creating its own sequence
- mostly it is used to combine the sounds with pre-recorded voice messages

Alarm	Visualisation	Frequency [Hz]	Time Shift[ms]
No. 1		415	-
No. 2		425	-
No. 3		415/423	20/20
No. 4		415/440	300
No. 5		415/435	12/12
No. 6		415/430	8
No. 7		415	-
No. 8		415/540	660
No. 9		415/540	120/120
No. 10		415/515	110/120
No. 11		415/515	250/250
No. 12		315/415	300/300

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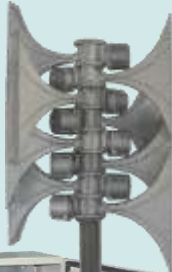Tel.: +421 903 81 95 98
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Electronic sirens GUARDIAN – Control

There are several options how to control the siren or group of sirens. The most common is to use in-built **Control board** with keypad and LCD. Other options* include remote wired control, **binary input** control and **radio control**. The most advanced is **control by computer** with specialized SW.

Control Board – CB01

- mainframe of the siren
- tone generator
- memory for custom sounds
- keypad with LCD
- microphone input
- computer input
- binary inputs

Configuration SW

- custom configuration of the siren
- setup of Macros
- upload custom sounds to the siren
- for test and service purposes

Siren setup

Direct control using CB01

Binary control

Control by RCM

Radio control

Remote Control Module - RCM*

- RS232 wire connection (to 15m)
- possible extension using RS422, RS485
- microphone input
- keypad with LCD
- small steel box
- used for control of siren from near office
* Optional equipment

Desk Control Unit - DCU*

- control of the siren or group of sirens by radio
- for use in the emergency control centre
- DCU is standalone unit or can be controlled via PC using special SW
- needs to be connected to a radiostation
* Optional equipment