GUARDIAN POWER MkII

Electronic sirens of big acoustic output used for large area warning (giant voice). The **GUARDIAN MkII** sirens have 375W amplifiers, power backup, can reproduce voice from microphone input and from siren memory and have aluminium alloy horns. The MkII type is more advanced, with enhanced control abilities, PC communiaction and self-test possibility.

Siren box with electronics

- amplifiers 375W
  (acc. to the siren type)
- motherboard
- power supply
- batteries 2x12V DC
- optional modules
- service power plug

Aluminium alloy horns

- alluminium horns with drivers
  (150W pairs)
- steel mast tube 114mm mounting
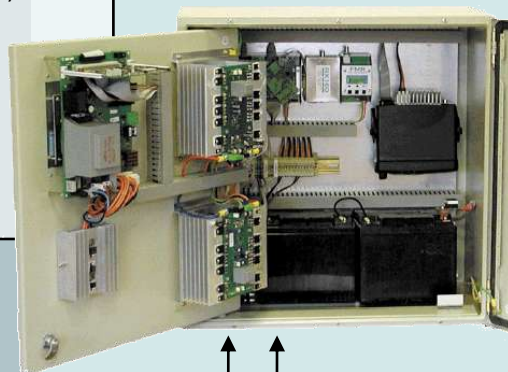
Audio output

230V AC
(115V AC)

Control inputs
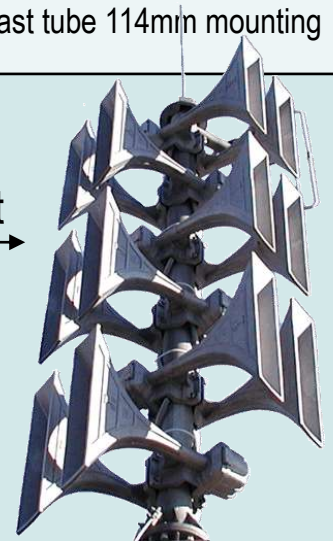
Guardian Mk.II electronic siren	250W	500W	750W	1000W	1500W
Acoustic power at 30m	104dB(A)	106dB(A)	108dB(A)	112dB(A)	115dB(A)
Number of horns	2	4	6	8	12
Number of amplifiers	1	2	2	4	4
Power supply	230V				
Power backup	2x12V (24-65Ah)				
No.of alarms / battery power	min.38 minutes of alarm / min.72 hours without power supply				
Standby mode / battery power	more than 1 week				
Number of alarm tones	customizable, MMC memory card				
Voice input	in built microphone				
Weight of siren box	48kg	60kg	60kg	80kg	80kg
Siren box dimensions	600x600x200	600x600x350	600x600x350	800x1000x350	800x1000x350
Weight of horns with drivers	27kg	54kg	80kg	108kg	165kg

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

Electronic sirens GUARDIAN – Control

The Guardian Mk2 sirens have enhanced control and self-test abilities in comparance to the more simple Guardian Mk1. In addition, the Mk2 sirens have CAN bus which allows the connection of more sirens together using wire link. Siren cabinet has also different construction, hiding the electronic components behind a door. It is also possible to control the siren via GSM phone.

Control possibilities

- keypad with LCD
- microphone
- CAN bus
- binary inputs
- radio control
- POCSAG, RDS
- GSM phone
- PC RS232
- group control
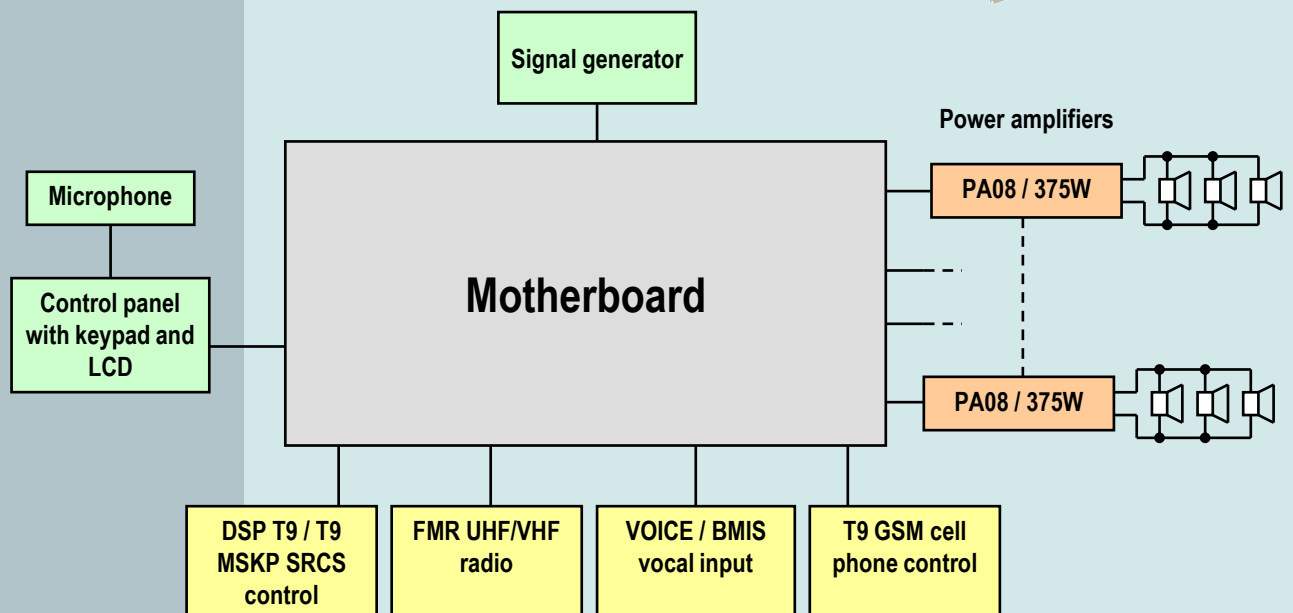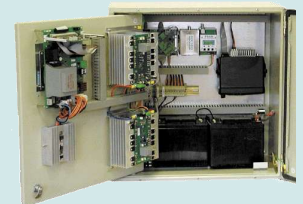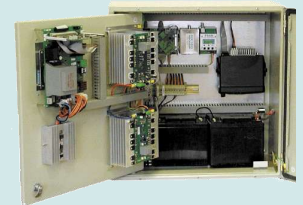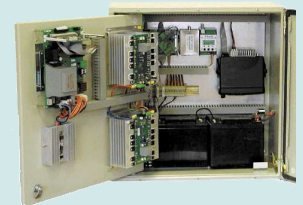- custom requirements...

CAN bus

Radio control

Self-test abilities

- battery voltage
- amplifier status
- driver status
- inside temperature
- power blackout
- door sensor
- charging function

Signal generator

Power amplifiers

Microphone

Motherboard

Control panel with keypad and LCD

PA08 / 375W

PA08 / 375W

DSP T9 / T9 MSKP SRCS control

FMR UHF/VHF radio

VOICE / BMIS vocal input

T9 GSM cell phone control

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Motherboard MAESTRO

The **Maestro motherboard** is an enhanced control module used in high-end sirens. Audio part of the motherboard is the **DSP signal processor** which process the audio files stored on the **MMC memory card**. All alarms and stored audio messages are fully configurable. The audio files can be prepared outside of the siren using PC and then with simple exchange of the cards to update the siren audio files. DSP procesoor allows to process the standard audio files (WMA, RIFF WAV, MP3, MIDI) in the 16bit/ 44kHz sampling (CD quaility) or in the 16bit/ 48kHz for PCM format.

MAESTRO

- 25Mips microprocessor
- realtime circuits
- realtime EEPROM for history log
- digital signal audio coprocessor
- MMC memory for files storage
- audio switch

- digital volume-control
- LCD and keypad
- CAN bus for remote control
- 2x AUX audio inputs
- 2x RS232 inputs
- power supply control circuits

Motherboard diagram