TECHNICAL DATASHEET

eRotor – an evolved product

Electronic siren eRotor was designed as an economically acceptable replacement of old high power motor driven sirens. Siren control box is simple in its design, with control keypad and message LCD positioned directly on the Motherboard. It is a light version of an electronic siren, which intends to be controlled more from external source like binary input, RS 232 or radio.



115 dB(A)
Acoustic power at 30 m, 500 W siren

250–1,500 W
eRotor electronic siren, 5 sizes

2 × 12 V DC
Power backup, 24–65 Ah

ELECTRONIC SIRENS EROTOR

Siren box with electronics

Control inputs

- keypad with LCD
- 2 binary inputs
- PC RS232
- CAN bus

Power supply: 230 V AC (115 V AC)

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Siren box with electronics

- amplifiers 375 W (acc. to the siren type)
- motherboard
- power supply
- batteries 2 × 12 V DC
- optional modules
- service power plug

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Audio output

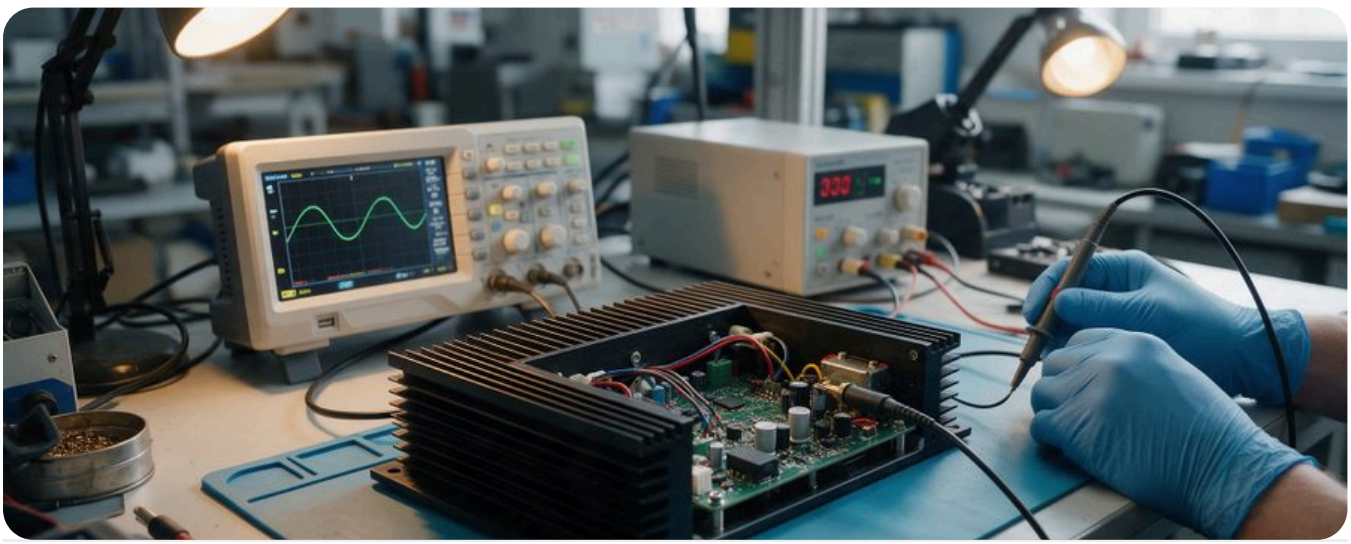
- alluminum horns with drivers (125 W pairs)
- steel mast tube 114 mm mounting

Aluminum alloy horns









ELECTRONIC SIRENS EROTOR

eRotor electronic siren

	250 W	500 W	750 W	1,000 W	1,500 W
Acoustic power at 30 m	110 dB(A)	115 dB(A)	117 dB(A)	119 dB(A)	121 dB(A)
Number of horns	2	4	6	8	12
Number of amplifiers	2	2	2	4	4
Weight of siren box with batteries	38 kg	50kg	50kg	70kg	70kg
Siren box dimensions [mm]	800 × 600 × 250	800 × 600 × 250	800 × 600 × 250	800 × 1000 × 350	800 × 1000 × 350
Weight of horns with drivers	27 kg	54 kg	80kg	108 kg	165 kg

Power supply	230 V
Power backup	2 × 12 V (24–65 Ah)
No.of alarms / battery power	min.15 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	AUX input



ELECTRONIC SIRENS EROTOR

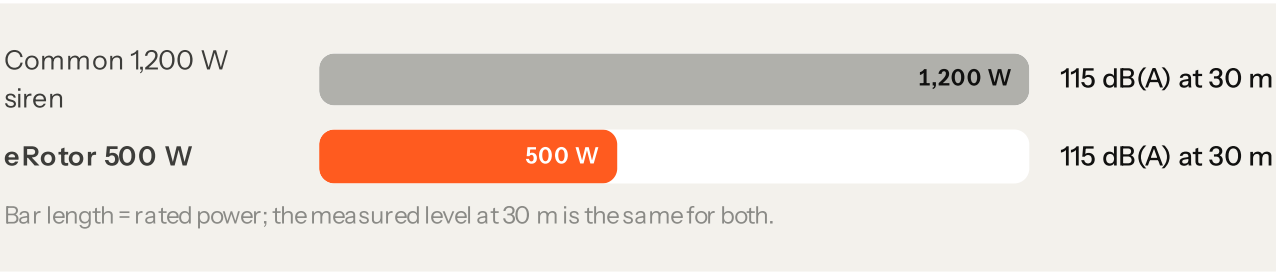
Acoustic performance

Thanks to the unique signal processor, separated power supply and thick aluminum horns the eRotor siren has unique acoustic performance outrating any other electronic siren type on the market.

When comparing the acoustic pressure at 30 m the eRotor 500 W has the same results as a common 1200 W electronic siren!

The result is lighter construction of horns and more reasonable costs for siren itself and for its installation.





Bar length = rated power; the measured level at 30 m is the same for both.

eRotor - advantages for customer :

- lower cost of siren
- lower power consumption needed
- smaller batteries capacity required
- smaller mast required to support less horns
- more simple installation
- lower transport costs



ELECTRONIC SIRENS EROTOR

Control possibilities

Control

- keypad with LCD
- 2 binary inputs
- PC RS232
- CAN bus

Optional:

- radio control
- POCSAG, RDS
- GSM phone



The eRotor siren is designed to be as most simple as possible. The primary control of the siren is binary input. For more complex application RS 232 control can be used. The RS 232 protocol is open and can be adjusted to the specific requirements. Internal LCD with keypad serves as backup control for trained personnel.

RS232 open protocol

Using RS232 open protocol user have a great opportunity to adjust whole control system according to customer's exact requirements. RS232 can be used as 2-way channel to communicate with siren. It sends commands and receives a feedback from siren about its function.

Self-test abilities

- battery voltage
- amplifier status
- driver status
- door sensor

eRotor "Siren Kit"

For electro engineering and developing companies we offer the possibility to obtain a "Siren Kit" which allows user to construct its own electronic siren from our modules. This way user can save a lot of costs for complete siren and for transport!

