

# THE NEW GENERATION PAVIAN

The new generation of electronic  
sirens For complex warning systems

## ▼ More intelligent

Remote siren control, more detailed auto-diagnostics,  
improved connectivity with external devices

## ▼ More compact

The reduced dimensions and lower weight  
of the siren yet higher output power and  
better performance

## ▼ More intelligible

Better quality sound processing,  
improved intelligibility and  
volume control

## ▼ More flexible

Software customisation  
of siren functions

The new generation of **the Pavian electronic siren** represents the top line of Telegrafia's advanced electronic warning and notification devices. The siren is a smart modular 4th generation electronic siren, which is intended mainly **for large complex warning and notification systems** that require sophisticated control methods and effective siren status monitoring.

## Pavian is not only a siren but a smart multifunctional warning device

The Pavian electronic siren is standardly equipped with full auto-diagnostic functions, including batteries, as well as with a wide range of control methods and communications channels. Due to its built-in backup batteries, it is fully operational in case of a power failure. At the same time, it can be autonomously responsive to various stimuli coming from the environment, and it is even able to control external devices. Moreover, the Pavian siren comes with a great variety of accessories such as masts, spare batteries, cables, beacons, aerials, or solar charging sets. A significant advantage is the possibility of customising its parameters and functions to specific customer needs.

### Key features

#### Innovative software technology

- Innovated **siren control from a remote control centre**, including the possibility of firmware reconfiguration and alarm additions
- More detailed **auto-diagnostics of the siren** and batteries
- Higher quality of wireless communications with external devices (Wi-Fi, GPS, LTE, Bluetooth)
- Improved **Text-To-Speech** function (automatic conversion of text messages to the audio output)
- Siren control also using **CAP** (Common Alerting Protocol) or **HTTP** (Hypertext Transfer Protocol)
- **Customised siren functions** using **smarter software applications** according to customer requirements

#### Complexity and multi-functionality

- Optimisation of the siren for **large and complex warning and notification systems**
- Output power from 300 W up to **4800 W**
- **High acoustic pressure** over a great distance
- **Digital sound processing** and **excellent intelligibility** of live-voice reproduction
- Extended speaker life
- **Direct live-voice transmission and playback** from the control centre
- Added possibility of **remote alarm and live voice recording**



#### Resistance and durability

- Full operability of the siren in **extreme weather conditions**
- Seamless operation in **extremely dusty environments**
- **Stainless steel electronics boxes** and all their components
- New **resistant locks protected by a dustproof cover**
- **Specially-shaped horns**, ensuring high-quality acoustic coverage of a required area
- **Light aluminium alloy** used in horns for **better resistance to adverse weather conditions**
- **Higher durability of the mechanical amplifier construction**

#### Incredibly short response time

- Extremely fast siren activation and deactivation
- Quick response time of the siren, providing the information on its activations and status

# The Pavian electronic sirens - The best for your project



## Exceptional reliability

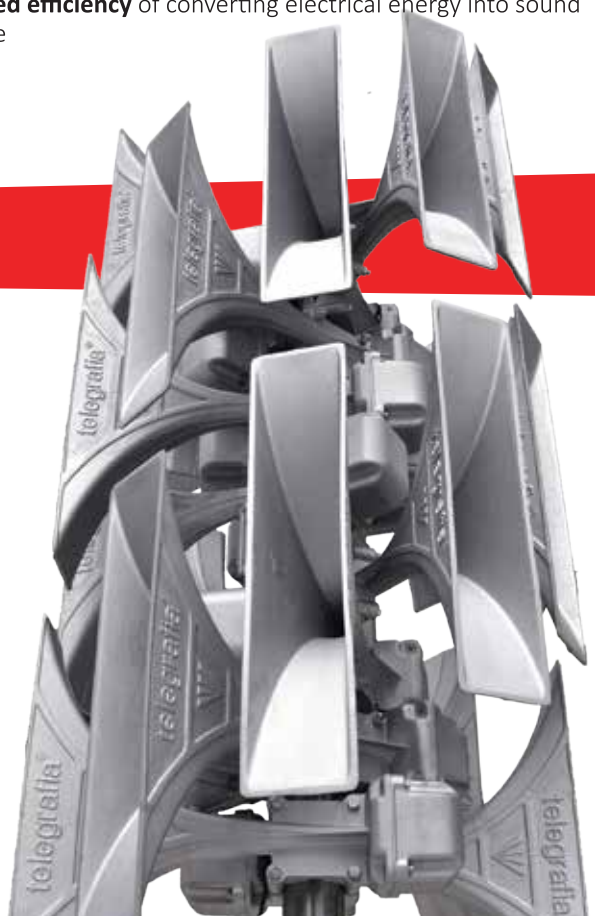
- Advanced **auto-diagnostic functions** in all modules and communications links
- Silent siren test
- **Global power supply** (a variety of power supply methods)
- **Intelligent high-rate battery recharging** with the battery's voltage monitoring and control
- **Accurate battery testing**
- **Extended battery's lifetime**
- **Amplifier protection against overload, overheat and output short circuits**
- **Full operability** in case of a **power failure**
- **Exceptional reliability** due to modern manufacturing procedures and strict output quality control
- **Increased efficiency** of converting electrical energy into sound pressure

## Unique sound processing methods

- **Remote alarm editing and additions** using all available communications channels
- Virtually **unlimited number of alarms**
- **Volume control and siren mode selection** (day/night)

## Broad communications spectrum

- Fully automated siren communications
- Direct connection of monitoring sensors to the siren (harmful substance monitoring)
- Simple algorithms for processing the data obtained from connected monitoring sensors
- Siren control based on sensor inputs within an established communications network
- Outputs for controlling other devices (beacons, gates and the like)
- Great selection of communications channels



## Technical Parameters

Electric power output	300 W up to 4800 W
Power supply	Mains: 90 V – 264 V AC / 50 Hz – 60 Hz Solar: 24 V solar panels
Power consumption	max. 300 W during the battery charge process max. 13 W in standby mode with fully-charged batteries
IP rating of the siren box	IP56, IP67
Dimensions of the siren box	up to 2400 W: 600 × 650 × 350 mm (w × h × d) up to 3000-3600 W: 600 × 650 × 450 mm (w × h × d) for more powerful sirens: upon request
Weight of the siren box	28 – 42 kg (without batteries), depending on the type of siren
Operating temperature range	-25 °C up to +65°C *

\* The range of the working temperatures of a siren can change according to the type of batteries used and their operating temperature range.



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