

# imago wls

Outdoor Wireless Siren 868 Mhz Bidirectional  
KSI6401000.3XX  
various colors



## INTRODUCTION

The **imago** self-powered outdoor siren is a professional (acoustic & optical) Sounder which shows a unique and exclusive design, extremely slim (max. 6 cm thickness) associated with a state-of-the-art technology aimed to combine the best possible performances with the maximum energy saving: high sound pressure, power LED alarm light and 2 LEDs for auxiliary signaling.

The siren is handled by two microcontrollers:

- One deals with major processing, in order to verify all conditions and to perform all required actions
- One for the RF communication channel management (bi-directional) for receiving commands, sending alerts, diagnostic, etc.

The microcontrollers are synchronized in their processing by an appropriate exchange of information. **imago** wireless offers the choice between two power supply solutions:

1. a proprietary alkaline battery pack 7,5V 8Ah, non-rechargeable (to be replaced)
2. an external power supply (9÷12Vdc) with rechargeable lead-acid battery 6V 1,2Ah

The charging status of the batteries and, if necessary, the level of external power supply are constantly monitored. The warnings of failure, missing or low batteries are reported to the main system.

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**imago** wireless is equipped with a temperature sensor that can provide the following data via signals on RF channel:

- the temperature value
- the overcoming of two programmable thresholds

**imago** wireless allows to measure the level of RF signal reception. If the location where the siren is placed allows a good signal reception, **imago** beeps at every variation of Tamper Switch during installation phase

**imago** wireless is also equipped with following protections:

- RF channel monitor: a supervision up to 1 minute can be programmed
- wall and opening tamper switch
- strong metallic zinc-plated under-cover (anti-smashing)
- high quality polycarbonate with UV protection designed to guarantee the resistance in all weather conditions.

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## TECHNICAL DATA

- Modern Design with original and convenient rotating opening
- Solid PC housing (minimum thickness 3 mm.) with anti-UV pigment
- Front available in different colors
- Transparent base available in different colors: orange, red and blue
- Strong metallic zinc-plated under-cover (anti-smashing)
- High acoustic power piezoelectric Buzzer (>100dBA @ 1m)
- Protective and insulating treatment of the PCB (conformal coating)
- Power Supply: 9V (min.) - 13.8V (max – power supply not included)
- Reloadable Backup battery: 6Vcc – 1,2Ah (*not included*)
- Un-reloadable Main battery: 7,5Vcc – 8Ah non-reloadable (*not included*)
- Operative temperature range: -10° +55°C 95% humidity
- Protection class: IP43
- Dimensions: 195 x 330 x 60 mm
- Weight (*without battery*): Kg 1.200
- Wireless bi-directional communication; 868MHz frequency
- RF Range: 300 m. in open air
- Supervision for wireless diagnostic (*programmable*)
- Temperature sensor (*excludible*)
- Temperature thresholds managing (*programmable*)
- Management of the maximum duration of the alarm (*programmable*)
- Alarm output configurable as Bistable or Monostable
- Power LED output configurable as Bistable or Monostable
- Auxiliary LED output configurable as Bistable or Monostable
- Acoustic signals of RF level OK

Using **imago** wireless powered with main battery (7,5V - 8Ah), the lifetime expectancy is up to 3 years in the following conditions:

- 4 daily cycles of turning on the auxiliary LEDs;
- Supervision interval programmed at 5 minutes;
- 1 monthly alarm cycle of 5 minutes each and 4 test alarm cycles;

### Notes:

1. At temperatures below -5° C the siren may give a “wrong battery” message
2. Working below -5°C significantly reduces battery life
3. Replace the battery pack using only the model KSI7207580.000
4. A battery can explode if handled incorrectly – do not recharge, open or throw on a fire

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## HOW TO ORDER

Ksenia Finished product

KSI6401000.317 imago wls white/orange  
KSI6401000.318 imago wls white/red  
KSI6401000.319 imago wls white/blue  
KSI6401000.337 imago wls silver/orange  
KSI6401000.338 imago wls silver/red  
KSI6401000.339 imago wls silver/blue

KSI7207580.000 Alkaline Battery 7,5V8Ah non-reloadable

## PARTS INCLUDED

PRODUCT CODE	QUANTITY	DESCRIPTION
KSI6401000.XXX	1	Siren complete with PCBA and metal undercover
	2	Sets 6 mm Dia. Bolts & Nuts
	1	Quick installation guide

## CERTIFICATIONS

REGION	CERTIFICATION
Europe	CE R&TTE1995/5/CE – RoHS

## ENVIRONMENTAL CARE

imago wls has been designed and manufactured taking care of the environmental respecting the following rules:

- No PVC
- Halogen free laminates and lead-free PCBA
- Low consumption
- Packaging realized mainly with recycled fibers and materials



we care