

# LoRa- Siren R602A Data Sheet

---

Wireless Sensor Network Based on LoRa Technology



## **R602A**

**Copyright©Netvox Technology Co., Ltd.**

This document contains proprietary technical information which is the property of NETVOX Technology. It shall be maintained in strict confidence and shall not be disclosed to other parties, in whole or in part, without written permission of NETVOX Technology.

The specifications are subject to change without prior notice.

---

## LoRa- Siren

---

### General Description

R602A is an intelligent wireless alarm that can communicate with other devices through wireless network. It has high-power speakers and high-brightness LEDs for sound and light alarms. It uses SX1276 wireless communication module. R602A type does not carry GSM communication function.

### Features of NETVOX Sensors

- LoRaWAN™ Class C compatible
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF™ Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- Over-the-air updates (future)
- Third-Party online wireless sensor monitoring and notification system to configure sensors, view data and set alerts via SMS text and email (optional)
- Available third-party platform: Actility/ThingPark, TTN, MyDevices/Cayenne

\*1. Actual range may vary depending on environment.

**LoRa- Siren****Technical Specifications****Electric**

Input Power	DC +12V
Working Current (max)	250mA(DC 12V)
Standby Current (max)	30mA(DC 12V)
Alarm sound level (at three meters)	>=80dB
Alarm light illumination	LUX(TBD)

**Frequency**

Frequency Range	863MHz-928MHz 470MHz-510MHz
TX Power	19dBm±1dBm
Rx Sensitivity	-136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps ) -121dBm (FSK,Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Build-in antenna
Communication Range	Up to 10km, the actual transmission distance depends on the environment.
Data Transfer Rate	0.3kbps~50kbps
Spread Technique	LoRa/FSK
Available Frequency	EU863-870, US902-928, AU915-928 KR920-923, AS923, CN470-510 Configured before shipment

**Physical**

Dimension	Φ 85mm * 52mm
Environment Temperature	-20℃ ~ 55℃
Environment Humidity Range	<90% RH (No condensation)