

LoRa- Siren R602A Data Sheet

Wireless Sensor Network Based on LoRa Technology



R602A

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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
- Improved power management for longer battery life
- Encrypt-RF™ Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- Battery Life*2:
 - Please refer to web: http://www.netvox.com.tw/electric/electric_calc.html
 - At this website, users can find battery life time for varier models at different configurations.
- 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.

*2. Battery life is determined by sensor reporting frequency and other variables

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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	Φ85mm * 52mm
Environment Temperature	-20℃ ~ 55℃
Environment Humidity Range	<90% RH (No condensation)