

# SPECIFICATION

Customer :

Applied To :

Product Name : Piezo Siren

Model Name : KPS-210R

Drawing No. : KP3.840.405

Compliance with RoHS

Signature of Approval

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Signature of KEPO

Approved by	Checked by	Issued by	Date

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## 1. 范围 Scope

This product specification is applied to the siren used for sounder in alarm systems. Please contact us when using this product for any other applications than described in the above.

本规格书适用于报警器，通常它用在系统中做报警或提示，如果将该产品用于其它领域，请与我们联系。

## 2. 概要 General

- 2.1 Length: 235mm  
长度: 235 mm
- 2.2 Width: 201 mm  
宽度: 201 mm
- 2.3 Height 155 mm  
高度: 155 mm
- 2.4 Weight: 1050±10 g.  
重量: 1050±10克
- 2.5 Case Material/Color : ABS/White  
壳体材质/颜色: ABS/白
- 2.6 Wires Connection Red +12V(Warble)  
引线极性 红线+12V  
Yellow +12V (Continuous)  
黄线+12V  
White GND  
白线接地

## 3. 额定极限条件 Maximum Rating

	项目 Item	规格 Specification
3.1	输入电压 input Voltage	6-14VDC
3.2	工作温度范围 Operating Temperature Range	-20 ~ +60℃
3.3	储存温度范围 Storage Temperature Range	-30 ~ +70℃
3.4	额定功率 Power Rating RMS	20W
3.5	最大功率 Power Rating Peak	30W
3.6	负荷试验 Load Test	8 Hours (at 12VDC)
3.7	耐温试验 Heat Test	8 Hours (at 60℃)

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## 4. 电性能 Electrical Characteristics

	项目 Item	规格 Specification
4.1	声压 Sound Pressure Level	110dB at 1 meter/12VDC
4.2	Max.Rated Current 额定电流	1400mA
4.3	Voice Coil Impedance (at 1KHZ) 音圈阻抗	8 Ohm
4.4	Tone Nature 音调	Warble and Steady(Continuous)

测试条件参见下项

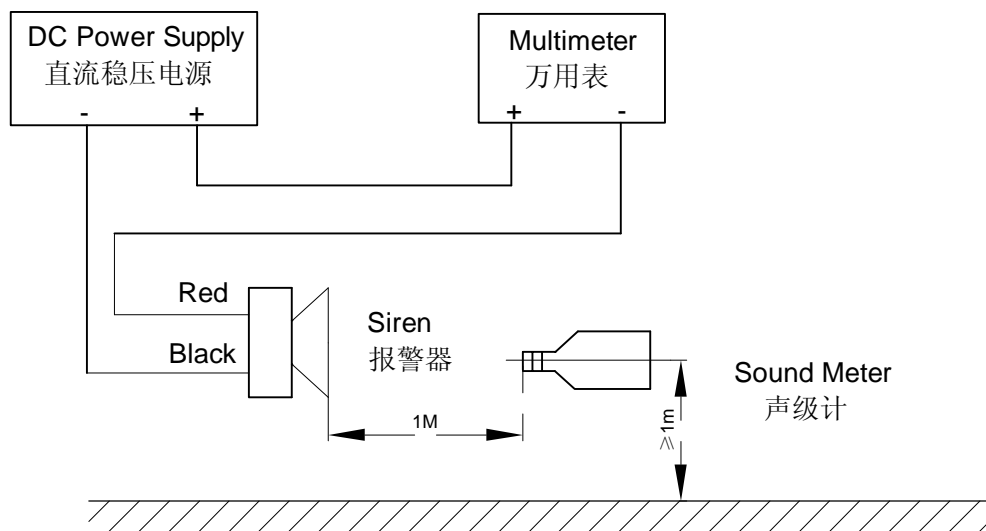
Refer to next item for measuring method.

## 5. 测试方法 Measuring Method

### 5.1 声压测试线路 S.P.L. Measuring Circuit

输入信号:12VDC

Input Signal:12VDC



1.The red lead wire connect anode of DC power ,The white lead wire connect cathode of DC power would make sound.

红线连接到电源正极，白线连接到电源负极，将发出报警声。

### 5.2 测试环境 Measuring Condition

Test condition : 15 ~ 35 °C , 25% ~ 85% RH , 860~1060 mbar

测试条件: 15~35 °C , 25%~85%RH , 860~1060mbar

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## 6. 可靠性试验 Reliability Test

After test(1~6item), the Piezo Siren S.P.L . difference shall be within  $\pm 10\text{dB}$ , and the appearance not exist any change to be harmful to normal operation(e.g.cracks,rusts,damages and especially distortion).

在1-6项试验后，报警器的声压变化值在 $\pm 10\text{dB}$ 之内，外观无变化（例如：开裂、生锈、损伤、变形等现象）。

	Item	Specification
1	High Temperature Test 高温试验	<p>After being woked in a chamber with <math>+70\pm 2\text{ }^{\circ}\text{C}</math> for 2h and then being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于 <math>+70\pm 2\text{ }^{\circ}\text{C}</math> 试验箱中，先工作 2小时，然后在正常大气压条件下恢复2小时后，进行测量</p>
2	Low Temperature Test 低温试验	<p>First being worked in a chamber with <math>-30\pm 2\text{ }^{\circ}\text{C}</math> for 2h and then being placed in a chamber with <math>-30\pm 2\text{ }^{\circ}\text{C}</math> for 16h, finally being placed in natural condtion for 2h, sounder shall be measured.</p> <p>将产品置于 <math>-30\pm 2\text{ }^{\circ}\text{C}</math> 试验箱中，先工作 2小时，再放置16小时，然后在正常大气压条件下恢复2小时后，进行测量</p>
3	Humidity Test 潮湿试验	<p>After being placed in a chamber with 90 to 95%R.H. at <math>+40\pm\text{ }^{\circ}\text{C}</math> for 2 h and then being placed in natural condition for 2h , sounder shall be measured.</p> <p>将产品置于湿度为 90-95%R.H，温度为<math>40\pm 2\text{ }^{\circ}\text{C}</math>试验箱中 2小时，然后在正常大气压条件下恢复2小时后，进行测量</p>
4	Shock 耐冲击性	<p>Under acceleration of peak<math>100\text{m/s}^2(10\text{g})</math> &amp; half sine wave pulse (pulse time is 16ms)condition.run into product 1000 times continuously.</p> <p>峰值加速度 <math>100\text{m/S}^2(10\text{g})</math>,脉冲持续时间为16ms的半正弦波脉冲对试样连续碰撞1000次，测试报警器。</p>

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	Item	Specification
5	Drop Test 跌落试验	Siren packed in the carton are dropped in six direction from the height of 50cm to the concrete floor. 跌落高度50cm,6个不同方向整箱跌落到水泥地, 试验后进行测量.
6	Vibration Resistance 振动试验	Siren shall be measured after being applied vibration of amplitude of 1.5mm with 10to 30Hz band of vibration frequency to each of 3 perpendicular directions for 2 hour. 振幅为1.5mm, 频率为10-30Hz,三个不同轴方向各振动2小时, 试验后进行测量.

表 1 Table 1

项 目 Item	试验后变化量 Specification after test
声压级 Sound Pressure Level	初始值± 10dB Initial Value ± 10dB

## 7. 包装标准 Packaging Standard

产品的外包装是纸箱,它应该清楚的标明型号,数量,出厂检验批号.  
在运输及储存的过程中,产品必须不会受到机械损伤.

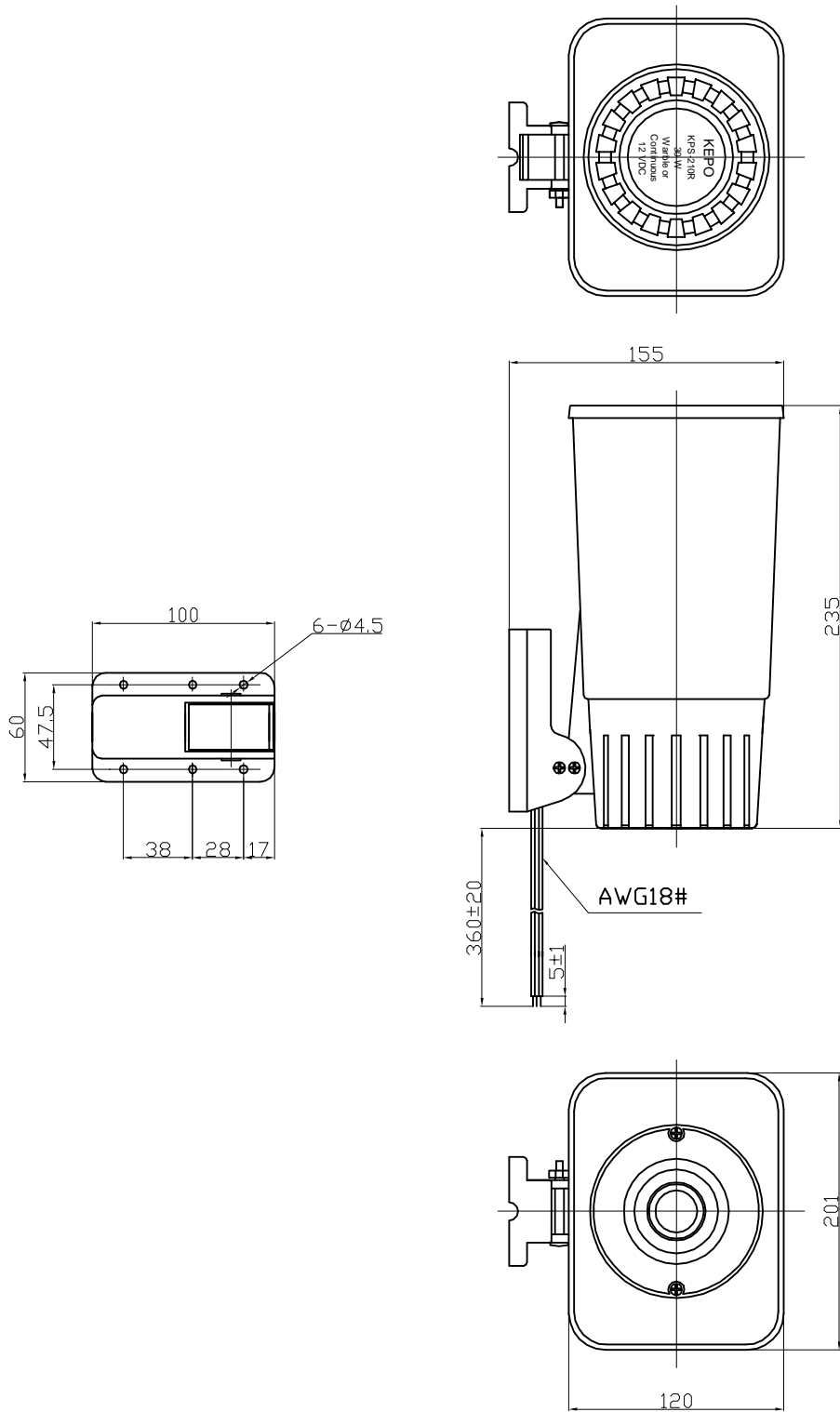
Each minimum package unit of products shall be in a carton box and it shall be clearly marked with Part Number, quantity and outgoing inspection number.

There shall be no mechanical damage on products during transportation and/or in storage.

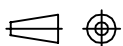
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### 8. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm  
Tolerance :  $\pm 0.5$

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## 9. Revision

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1.0	2008.01.21	/	primary	