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AUDIOWELL INTRODUCTION

Established in 1999, Audiowell Electronics (Guangdong) Co., Ltd. (NEEQ: 832491) is a leading provider of position, distance and speed sensor components and sensing solutions with focus on the research, design, production and sales of sensitive components, sensors and corresponding modular solutions.

As a sensor manufacturer and solution provider, Audiowell has the most comprehensive sensor component product line in China. Our ultrasonic sensors, flow sensors, electro-acoustic devices and ultrasonic transducer devices are market leaders and widely used in a variety of industries and fields including automotive electronics, instruments and meters, intelligent security systems and health appliances. While serving Chinese customers, we have also provided professional products and services for the global customers in many countries and regions.

Adhering to the business philosophy of "Be good, do better, create the best future", we are committed to becoming a global major supplier of sensors (position, distance, speed) and will continuously concentrate on cutting edge technologies as well as advanced manufacturing techniques, to provide innovative and superior products for our society and create a safe, convenient and comfortable life for everyone.

SENSOR TECHNOLOGY













Control





Terminal







Sensor technology shapes an intelligent life.

AUTOMOTIVE ELECTRONICS









Parking Transducer Assembled Sensor Assist Sensor









Ultrasonic Blind Spot ROA Ultrasonic Detection Sensor Transducer

Life Detection Module







Ultrasonic DEF/AdBlue DEF/AdBlue Ultrasonic Forward Level Sensor Collision Warning Sensor









Gasoline Level Sensor

Dust Sensor

CO2 Sensor









Buzzer



AUTOMOTIVE ELECTRONICS

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Ultrasonic Parking Transducer

Features

- Quality control standard of Automotive OEM manufacturers
- Outstanding consistency and stability
- High sensitivity and low power consumption

Applications

- Reverse parking system
- Parking assist system



Ultrasonic Assembled Sensor

Features

- Integrated design, easy to install
- High sensitivity

Applications

- Parking Distance Control(PDC)
- Reversing aid system



| Model | TC0120-001 | TC0121-002 | TC0062-003 | TC0223-000 |
|--------------------|--------------|--------------|--------------|--------------|
| Appearance | | | - A | |
| Resonant frequency | 48 | 55.5 | 58 | 55.5 |
| Direction angle | X: 60 Y: 60 | X: 90 Y: 45 | X: 90 Y: 45 | X: 90 Y: 45 |
| Decay time (ms) | ≤1.8 | ≤2.2 | ≤1.8 | ≤2.0 |
| Size (mm) | Ф15.5 x H9.0 | Ф15.5 x H9.0 | Ф14.0 x H9.0 | Ф15.5 x H9.0 |

| Model | TK0139 |
|--------------------------------|-------------|
| Appearance | |
| Resonant frequency (Khz) | 55.5±1 |
| Direction angle | X: 85 Y: 45 |
| Decay time (ms) | 0.9~1.5 |
| Detection range* | ≥2.5 |

^{*}Φ75mm tube measurement



Ultrasonic Blind Spot Detection Sensor

Features

- Digital signal output
- Built-in circuit which matches the self-developed transducer
- IP69 protection class

Applications
- Blind Spot Detection



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| /////////////////////////////////////// | | | | | |
|---|-------------|-------------|-------------|-------------|--|
| Model | VU0001-001 | VU0002-001 | VU0004-001 | VU0005-000 | |
| Appearance | | | | | |
| Frequency (Khz) | 48 | 55.5 | 55.5 | 48 | |
| Direction angle | X: 60 Y: 60 | X: 90 Y: 45 | X: 90 Y: 45 | X: 60 Y: 60 | |
| Max. range* | 5000 | 2500 | 2500 | 5000 | |
| Accuracy (cm) | ≤ ±5 | ≤ ±5 | ≤ ±5 | ≤ ±5 | |
| Communication protocol | LIN 2.2 | LIN 2.2 | 1/0 | 1/0 | |
| Protection class | IP69 | IP69 | IP69 | IP69 | |

^{* ₱ 75}mm tube measurement

- Parking assist system

| Model | VU0008-000 |
|------------------------|--------------|
| Appearance | |
| Frequency (Khz) | 48 |
| Direction angle | X: 120 Y: 60 |
| Max. range* | 3500 |
| Accuracy (cm) | ≤ ±5 |
| Communication protocol | 1/0 |
| Protection class | IP69 |

^{*} Φ 75mm tube measurement

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ROA Ultrasonic Transducer

Features

- Quality control standard of Automotive OEM manufacturers
- Outstanding consistency and stability
- High sensitivity and low power consumption

Applications

- Rear occupant alert system



Life Detection Module

Features

- -High sensitivity, quickly detect breathing or small movements
- -Not affected by light, temperature and humidity
- -Low power consumption

Applications

- Rear occupant alert system



| Model | TO0101-004&TO0104-004 | TO0019-000&TO0020-000 |
|--------------------|-----------------------|-----------------------|
| Appearance | | |
| Frequency (Khz) | 40±1.0 | 40±1.0 |
| S.P.L | 117~122 | ≥115 |
| Sensitivity (dB) | -60~-55 | ≥65 |
| Operating TEMP. | -40~+90 | -40~+90 |
| Housing material | ABS | ABS |
| Size (mm) | Ф10.0 Х 7.1 | Ф16.0 X 12.0 |

| Model | UM0040 |
|-----------------|--|
| Detection range | 1.8m (Wave speed angle0°) 1m (Wave speed angle30°) |
| Detection speed | 8 |
| Voltage (v) | 12 |
| Current (mA) | 40 |



DEF/AdBlue Level Sensor

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Features

- Continuous measurement
- High accuracy (Four times as high as the traditional liquid level sensors)
- No moving part

Applications

-SCR system for Diesel Engines

| Model | UQ0008-000 |
|--------------------|------------|
| Appearance | |
| Frequency (Khz) | 760±30 |
| Resonant impedance | ≤340 |
| Accuracy | ±1% |
| Input voltage | ≤5 |

| Model | UM0059-000 |
|------------------------|------------|
| Appearance | |
| Measurement range (mm) | 40~500 |
| Accuracy (mm) | ±5 |
| Response time (s) | ≤2 |
| Power (v) | 12 |
| | |



Gasoline Level Sensor

Features

- External measurement
- Continuous measurement

Applications

- Automotive fuel tank monitoring
- Oil tank monitoring



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| <u> </u> | | |
|---------------------------|-------------|-------------|
| Model | VU0001-001 | VU0005-000 |
| Appearance | | |
| Frequency (Khz) | 48 | 48 |
| Direction angle | X: 60 Y: 60 | X: 60 Y: 60 |
| Max. range* | 5000 | 5000 |
| Accuracy (cm) | ≤ ±5 | ≤ ±5 |
| Communication Protocol | LIN 2.2 | 1/0 |
| Protection class | IP69 | IP69 |

^{*} Φ75mm tube measurement

- Forward Collision Warning

| /////////////////////////////////////// | |
|---|------------------|
| Model | AW9Y200K01-01 |
| Appearance | |
| Resonant frequency (Mhz) | 2 |
| Capacitance (pF) | 1600±15% |
| Impedance (Ohm) | 5±2 |
| Operating Temp | -40 ~ +80 |
| Size (mm) | Ф30×20 |

Dust Sensor

Features

- Independent detection of two channels, simultaneous detection of PM2.5 concentration inside and outside the car
- Real-time continuous measurement, refresh rate 1s/time
- High sensitivity

Applications

- Automotive Environmental System



CO2 Sensor

Features

- Excellent precision
- Good consistency

Applications

- Automotive Environmental System



| Model | DL0002-000 |
|---|------------------------|
| Appearance | and |
| Туре | Laser |
| Input voltage | 8~18 |
| Detection range | TYP 2.5 MIN 1.0 MAX 10 |
| Output mode | Digital signal |
| Operating Temp | -20~+70 |
| Size (mm) | 98×74×24 |
| /////////////////////////////////////// | |

| Model | GC0001 |
|--------------------------|------------------|
| Appearance | |
| Effective range (ppm) | 0~3000 |
| Max. Range | 0~5000 |
| Accuracy (ppm) | ± 50+5% |
| Input voltage (v) | (DC)+4.7 to +5.3 |
| Current consumption (mA) | ≤150 |
| Size (mm) | 33x20x9.2 |
| | |

Obstacle Avoidance Sensor

Features

- Built-in digital signal output
- self-check signal function and comes with a suitable circuit to optimize the performance of the sensor
- Simple structure, easy to install

Applications

- Autonomous driving system for unmanned vehicles



Buzzer

Features

- High reliability
- Small size, easy to install

Applications

- Car security system



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| Model | VU0001-001 | VU0002-001 | VU0004-001 | VU0005-000 |
|---------------------------|-------------|-------------|-------------|-------------|
| Appearance | | | | |
| Frequency (Khz) | 48 | 55.5 | 55.5 | 48 |
| Direction angle | X: 60 Y: 60 | X: 90 Y: 45 | X: 90 Y: 45 | X: 60 Y: 60 |
| Max. range* | 5000 | 2500 | 2500 | 5000 |
| Accuracy (cm) | ≤ ±5 | ≤ ±5 | ≤ ±5 | ≤ ±5 |
| Communication Protocol | LIN 2.2 | LIN 2.2 | 1/0 | 1/0 |
| Protection class | IP69 | IP69 | IP69 | IP69 |

^{*}Φ75mm tube measurement

| Model | QJ0853 | QJ0861 | QJ0890 | QJ0855 |
|-------------------|------------|-----------|--------------|------------|
| Appearance | 9 | | | |
| Frequency (Hz) | 2000 | 3200 | 2000 | 800 |
| S.P.L (dB) | ≥100(10cm) | ≥98(30cm) | ≥80(100cm) | 88(50cm) |
| Driving voltage | 30Vp-p | 12VDC | 12Vp-p | 12VDC |
| Size (mm) | Ф30×13.5 | Φ42×16.5 | 38.5×30×27.6 | Ф43.2×16.8 |

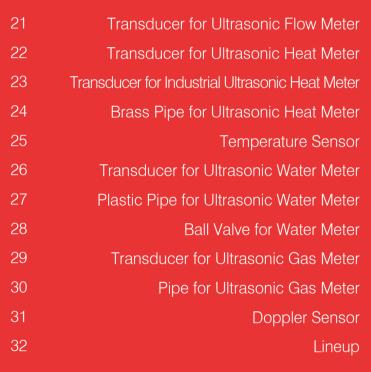
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Lineup

| Products | Appearance | Parking system | Parking assist system | BSD system | SCR system | | FCW system | ROA system | Fuel tank monitoring | Environmental system | Obstacle Avoidance System for AGV | Anti-theft alarm system |
|------------------------------------|------------|-------------------|-----------------------|-------------------|-----------------------|--|---------------|---------------|-------------------------|-----------------------|---|-------------------------|
| Ultrasonic Transducer | | \// - | | ///•/// | | | | | | | | |
| Ultrasonic Sensor | | | • | • | | | | | | | • | |
| Open Type Ultrasonic Transducer | | | | | | | | //// • | | | | |
| DEF/AdBlue Quality Sensor | | | | | • | | | | | | | |
| DEF/AdBlue Level Sensor | | | | | / /// - | | | | | | | |
| Gasoline Level Sensor | 9 | | | | | | | | • | | | |
| Dust Sensor | Fort. | | | | | | | | | / /// - | | |
| CO2 Sensor | | | | | | | | | | • | | |
| Buzzer | | \//\ - | | /// - //// | | | | ////•/// | | | | |



INTELLIGENT METERING







Transducer for Flow Meter



Transducer for Heat Meter



Transducer for Industrial Heat Meter



Brass Pipe for Heat Meter



Temperature





Transducer for Water Meter



Plastic Pipe for Water Meter



Ball Valve for Water Meter



Transducer for Gas Meter



Pipe for Gas Meter





Doppler Sensor

Transducer for Ultrasonic Flow Meter

Features

- High reliability
- High and low temperature resistance



Applications

- Ultrasonic flow sensor



Transducer for Ultrasonic Heat Meter

Features

- Good consistency
- Stable performance
- High reliability





Applications

- Ultrasonic heat meter

| Model | HN0536-004 | HN0635-000 | HN0636-004 |
|-------------------------|------------|------------|------------|
| Frequency (MHz) | 1.00±0.02 | 1.015±0.03 | 1.015±0.03 |
| Resonant impedance (Ω) | ≤50 | ≤50 | ≤50 |
| Static capacitance (pF) | 710±20% | 1350±20% | 1150±20% |
| Size (mm) | Ф10.0×1.0 | Φ15.5×1.02 | Φ14.0×1.01 |

| Model | US0002 | US0004 | US0014 |
|----------------------------------|--------|--------|--------|
| Appearance | | | |
| Frequency (Khz) | 975±30 | 975±30 | 975±30 |
| Operating Temp | +4~+90 | +4~+90 | +4~+90 |
| Pressure Resistance (MPa) | 1.6 | 2.5 | 2.5 |
| Installation diameter (mm) | Ф18.2 | Ф16.8 | Ф16.8 |

Transducer for Industrial Ultrasonic Heat Meter

Features

- High and low temperature resistance
- High reliability

Applications

- Ultrasonic heat meter





Features

- Stable performance
- Good consistency

Applications

- Ultrasonic heat meter



| Model | US0012 | US0017 |
|----------------------------------|---------|---------|
| Appearance | | |
| Frequency (Khz) | 975±30 | 975±30 |
| Operating Temp | +4~+120 | +4~+130 |
| Pressure Resistance (MPa) | 4.0 | 3.5 |
| Installation diameter (mm) | Ф18.0 | Ф17.0 |

| Model | HS0002 | HS0003 |
|---------------------------------|-----------|-----------|
| Appearance | | |
| Pressure Resistance (Mpa) | 1.6 | 1.6 |
| Operating Temp. (°c) | 0~+90 | 0~+90 |
| Detection range (m³/h) | 0.07~7.00 | 0.07~7.00 |
| Nominal diameter | DN 20 | DN 25 |





Features

- Resistant to harsh environmental conditions such as high and low temperature, humidity, shock, and vibration
- Meet the requirements of a wide range ratio water meter
- Good consistency



- Ultrasonic water meter



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| Model | US0039 | US0072 | US0078 |
|---------------------------------|---------|---------|---------|
| Appearance | | | |
| Frequency (KHz) | 975±30 | 1090±20 | 2110±30 |
| Pressure Resistance (Mpa) | 2.5 | 2.5 | 2.5 |
| Operating Temp (°C) | 0.1~+90 | 0.1~+90 | 0.1~+90 |
| Installation diameter | Ф16.8 | Ф16.8 | Ф10.0 |

| Model | HQ0057 |
|----------------------------|---------|
| Appearance | |
| Accuracy (°c) | ≤0.1 |
| Insulation resistance (ΜΩ) | 100 |
| Туре | PT 1000 |
| Operating Temp. | +4~+90 |

Plastic Pipe for Ultrasonic Water Meter

Features

- Stable performance
- Good consistency

Applications

- Ultrasonic water meter



Ball Valve for Water Meter

Features

- Continuous regulation
- No moving parts

Applications

- Ultrasonic water meter



| Model | HS0014 | HS0016 | HS0017 |
|---------------------------------|---------|-------------|---------|
| Appearance | No. | S. American | |
| Pressure Resistance (Mpa) | 1.6 | 1.6 | 1.6 |
| Operating temperature | 0.1~+50 | 0.1~+50 | 0.1~+50 |
| Pressure loss (Kpa) | ≤40 | ≤40 | ≤40 |
| Nominal diameter | DN 15 | DN 20 | DN 25 |

| Model | HZ0021 |
|---------------------------------|---------|
| Appearance | |
| Pressure Resistance (MPa) | 1.6 |
| Installation Length (mm) | 64.5 |
| Operating Temp (°C) | 0.1~+50 |
| Nominal diameter | DN15 |

Transducer for Ultrasonic Gas Meter

Features

- High sensitivity
- Strong directivity
- Corrosion resistant material, suitable for various gas

Applications

- Ultrasonic gas meter





Pipe for Ultrasonic Gas Meter

Features

- Stable performance
- Good consistency

Applications

- Ultrasonic gas meter



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| Model | HT0008 | HT0013 | HT0017 |
|---------------------------------|---------|---------|---------|
| Appearance | | | O |
| Frequency (KHz) | 230±20 | 195±15 | 540±30 |
| Pressure Resistance (MPa) | 0.2 | 0.2 | 0.2 |
| Operating Temp (°C) | -25~+70 | -25~+55 | -25~+55 |
| Transmiting surface | Φ9.6 | Φ14.1 | Ф10.8 |

| Model | HZ0015 |
|---|---|
| Appearance | The state of |
| Frequency (KHz) | 500 |
| Input voltage (v) | 10~30 |
| Pressure Resistance (KPa) | ≤10 |
| Operating Temp | -10~+40 |
| 7////////////////////////////////////// | /////////////////////////////////////// |

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Doppler Sensor

Features

- Good consistency
- Stable performance
- Easy to install

Applications

- Deep sea flow monitoring system



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Lineup

| Model | Appearance | Ultrasonic Heat Meter | Ultrasonic Water Meter | Ultrasonic Gas Meter | Deep sea flow detection system |
|---|--|--------------------------|---------------------------|-------------------------|--------------------------------|
| Transducer for Ultrasonic Flow Meter | | //// - | / /// - | | |
| Transducer for Ultrasonic Heat Meter | | | | | |
| Transducer for Industrial Ultrasonic Heat Meter | | //// = //// | | | |
| Brass Pipe for Ultrasonic Heat Meter | | • | | | |
| Temperature Sensor | | | | | |
| Transducer for Ultrasonic Water Meter | | | • | | |
| Plastic Pipe for Ultrasonic Water Meter | S. Common of the | | /// - //// | | |
| Ball Valve for Water Meter | | | • | | |
| Transducer for Ultrasonic Gas Meter | 9 | | | ///=/// | |
| Pipe for Ultrasonic Gas Meter | Che | | | • | |
| Doppler Sensor | | | | | /// •/// |







INTELLIGENT



Liquid Auto-Fill Control Module

Ultrasonic Rangefinder

Infrared Dust Sensor







Carbon Dioxide



Laser Dust Sensor

Sensor

Ultrasonic Sensor









Liquid Level Ultrasonic Atomizing Managing Module Transducer

Ultrasonic Atomizer







Microporous Atomizing Microporous Piezoelectronic
Transducer Atomizing Module Pump







Detection Sensor Ultrasonic Sensor Sensor Module

Dual Paper Directional Speaker Ultrasonic Flow





INTELLIGENT HOME

| Liquid Auto-Fill Control Modul |
|---------------------------------------|
| Ultrasonic Rangefinde |
| Infrared Dust Senso |
| Laser Dust Senso |
| CO2 Senso |
| 300KHz Ultrasonic Senso |
| Liquid Level Managing Modul |
| Ultrasonic Atomizing Transduce |
| Ultrasonic Atomize |
| Microporous Atomizing Transduce |
| Microporous Atomizing Modul |
| Piezoelectronic Pum |
| Dual Paper Detection Senso |
| Directional Acoustic Ultrasonic Senso |
| Ultrasonic Flow Sensor Modul |
| Buzze |
| Lineu |

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Liquid Auto-Fill Control Module

Features

- Non-contact measurement
- Short response time

Applications

- Water dispenser. Coffee machine





Features

- Outstanding directivity
- Non-contact measurement

Applications

- Robot
- UAV





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| Model | UM0034-000 | UM0034-002 |
|-------------------------------|------------|------------|
| Appearance | | |
| Measuring range (mm) | 20~250 | 20~1000 |
| Enter response time | ≤ 3 | ≼3 |
| Leave response time (s) | <2 | <2 |
| Working Current (mA) | ≤12 | ≤ 9 |
| Operating Temp (°C) | 0~85 | 0~85 |

| Model | UM0090 | UP0152-000 |
|----------------------------|----------|--|
| Appearance | O | The state of the s |
| Measuring range (mm) | 150~1500 | 20~2500 |
| Accuracy (mm) | 10 | 10 |
| Working Current (mA) | ≤10 | ≤10 |
| Power Supply (v) | 5 | 5 |
| Response time (ms) | <1 | 2 |

Infrared Dust Sensor

Features

- High sensitivity
- Excellent consistency

Applications

- Air purifier
- Air conditioners
- Ventilation system





Features

- Excellent consistency
- High accuracy

Applications

- Air purifier
- Fresh air system



| Model | DW0001 | DW0002 | DC0001 |
|---|-----------------|--------------------------|-----------------|
| Appearance | | | |
| Operating voltage (v) | DC 5±5% | DC 5±0.1 | DC 5V ±5% |
| Detectable Partical Diameter (µm) | TYP 2.5 MIN 1.0 | 1.0~10 | TYP 2.5 MIN 0.5 |
| Signal output method | Analog output | Digital output(UART/PWM) | Analog output |
| Size (mm) | 46.2x34.0x17.6 | 46.2x34.0x17.6 | 59.0x44.6x17.3 |

| <u> </u> | | [|
|--|----------------|----------------|
| Model | DL0001 | DL0003 |
| Appearance | 0 | 201 |
| Measuring range of particles | 0.3~10 | 0.3~10 |
| Effective range of particle mass concentration (µg/m³) | 0~500 | 0~500 |
| Max. range of particle mass concentration (µg/m³) | 1000 | 1000 |
| Supply voltage (v) | 5 | 5 |
| Working Current (mA) | ≤ 100 | ≤ 100 |
| Size (mm) | 48.4x38.4x24.0 | 48.4x38.4x11.8 |

CO2 Monitoring Sensor

Features

- Large detection range
- High precision

Applications

- Air purifier
- Fresh air system



300KHz Ultrasonic Sensor

Features

- Special matching materials
- Small blind zone
- Good directive
- Excellent consistency

Applications

- Sweeping robot





| Model | GC0001 | |
|---------------------------------------|------------------|--|
| Appearance | | |
| fective range of detectio (ppm) | 0~3000 | |
| Max. range of detection (ppm) | 0 ~ 5000 | |
| Accuracy (ms) | ± (50+5%) | |
| Supply voltage (v) | (DC)+4.7 to +5.3 | |
| Working current (mA) | ≤150 | |
| Size (mm) | 33x20x9.2 | |

| /////////////////////////////////////// | |
|---|---------------|
| Model | HT0020-000 |
| Appearance | |
| Frequency (KHz) | 300 |
| Decay time | ≤190 |
| Driving voltage (Vp-p) | 12 |
| Capacitance (nF) | 1.3±20% |
| Size (mm) | Φ16.0 x H12.0 |

Liquid Level Managing Module

Features

- High precision
- Small blind zone
- Short response time

Applications

- Sweeping robot
- Smart cleaning machine



Ultrasonic Atomizing Transducer

Features

- The stable temperature of transducer ensures stable work.
- Advanced electode protective film is suitable for all kinds of different water.

Applications

- Humidifier
- Aroma Diffuser



| Model | UM0105 |
|---------------------------------------|----------------|
| 5V power requirements | 4.5-5.5V, 30mA |
| Power (w) | ≤0.1 |
| Level signal output voltage (V) | 3.3-5.5 |
| Level signal output current (mA) | ≤2 |
| Operating Temp (°C) | +5~-60 |

| Model | HL0020-004 | HL0001-001 | HL0013-085 | HL0015-000 | HL0017-010 |
|--------------------|------------|------------|------------|------------|------------|
| Frequency (MHz) | 2.4 | 3 | 1.7 | 1.7 | 2.4 |
| Lead length | 50±5 | 50±5 | 100±5 | 88±5 | 100±5 |
| Terminal | XH-2P | XH-2P | / | / | / |
| Diameter (mm) | 16 | 16 | 20 | 25 | 25 |

Ultrasonic Atomizer

Features

- Compact size
- High conversion efficiency
- Anti-dry protection
- Digital signal control

Applications

- Humidifier
- Aroma Diffuser



Microporous Atomizing Transducer

Features

- Fine atomized particles
- High through hole rate, up to 97%
- Acid resistance, alkali resistance and cavitation corrosion resistance

Applications

- Humidifier
- Aroma Diffuser



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| Model | UM0108-000 | UM0108-003 |
|----------------------------------|------------|-----------------|
| Appearance | | |
| Power supply (V) | 24±0.3 | 24±1.2, 5V-5.5V |
| Transducer frequency (Mhz) | 1.7±0.05 | 1.7±0.05 |
| Max operating current (A) | 0.58±0.07 | 0.65±0.07 |
| Atomization volume (mL/H) | 250-350 | 360±20% |

| Model | HQ0047-016 | HQ0064-015 |
|---------------------|------------|------------|
| Appearance (MHz) | 109±5 | 110±5 |
| Capacitance (pF) | 3800±20% | 3200±20% |
| Impedance (Ω) | ≤180 | ≤180 |
| SiZe (µm) | 7±1 | 6.5±1 |
| Diameter (mm) | 20 | 20 |

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Microporous Atomizing Module

Features

- Frequency-follow and low-power circuit, ensure the stable performance.
- Special driving circuit and save power.
- Optimizing the configration and function, which reduces the heat and failure rate.

Applications

- Aroma Diffuser
- Facial sprayer



| Model | UP0096-000 |
|------------------------------|------------------------|
| Appearance | |
| Power (DC) | DC :5±0.3V/1A |
| Working current (mA) | 300±80 |
| Transducer frequency (KHz) | 100~120 |
| Functions | Auto off when no water |
| Power (DC) | DC :5±0.3V/1A |



Piezoelectronic Pump

Features

- Small and lightweight
- Adjustable driving voltage for the regulation of air pressure and air flow in accordance with actual work requirement
- Concentrated air flow

Applications

- Small-size aromatherapy machine
- Heat dissipation of core chips
- Micro-flow test instrument



| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
|---|
| HQ0067 |
| |
| 24±2 |
| ≤200 |
| 10~20 |
| ≥1.0 |
| ≥0.3 |
| 21x21x4 |
| |

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Dual Paper Detection Sensor

Features

- Special matching materials
- Small blind zone
- Excellent directivity
- Excellent consistency



- Printer



Ultrasonic Sensor for Directional Speaker

Features

- Excellent directive, directional transmission
- Not affected by electromagnetic fields



Applications

- Directional speaker

| Model | HT0020 |
|-----------------------|---------|
| Appearance | |
| Frequency (KHz) | 300 |
| Decay time (µs) | ≤190 |
| Driving voltage | 12 |
| Capacitance (nF) | 1.3 |
| Operating Temp | -20~+70 |

| Model | TO0123-001 | TO0019-009 | TO0139-000 |
|---------------------------------|----------------|----------------|--------------|
| Resonant frequency (KHz) | 40±1 | 40±1 | 40±1 |
| S.P.L (dB) | ≥115 | ≥115 | ≥117 |
| Max. input voltage (Vrms) | 20 | 20 | 20 |
| Static capacitance (pF) | 2500±20% | 2100±20% | 2200±20% |
| Operating Temp (°C) | -20~+70 | -20~+70 | -40~+85 |
| Size (mm) | Ф16.0 х Н 12.0 | Ф16.0 х Н 12.0 | Ф8.0 х Н 6.0 |

Ultrasonic Flow Sensor Module

Features

- Measuring pipe made of molded engineering plastic to ensure high ruggedness and reliability
- Up to 2% accuracy and immunity to environment impact
- Turndown ratio up to 160
- Approved for drinking water
- Digital output with M-BUS serial communication

Applications

- Smart water management system
- Leakage detection





AUDIOWELL | SENSOR TECHNOLOGY | 50

Buzzer

Features

- Small size, easy to install
- Stable performance

Applications

- Home appliance alarm





| Model | FS0001 | FS0002 | FS0009 | FS0010 |
|-------------------------------------|---|---|---|---|
| Appearance | | | | S. Carlotte |
| Diamete | DN15 | DN10 | DN20 | DN25 |
| Power Supply (v) | 3.2~5.3 | 3.2~5.3 | 3.2~5.3 | 3.2~5.3 |
| Flow Range | 2.5~2500 | 2.0~1600 | 2.5~4500 | 2.5~6000 |
| Accuracy (mm) | ≤±5% (15~25L/h) ≤±3.5% (25~50L/h) ≤±2% (50~2500L/h) | ≤±5% (15~25L/h) ≤±3.5% (25~50L/h) ≤±2% (50~1600L/h) | ≤±5% (20~40L/h) ≤±3.5% (40~100L/h) ≤±2% (100~4500L/h) | ≤±5% (30~50L/h) ≤±3.5% (50~100L/h) ≤±2% (100~6000L/h) |
| Max. Operating Pressure (Mpa) | 1.6 | 1.6 | 1.6 | 1.6 |
| Communication method | ΠL | TTL | TTL | TTL |

| Model | QJ0410-007 | QJ0411-010 |
|---------------------------------|------------------|------------|
| S.P.L (dB) | 70 | 85 |
| Detection range (cm) | 10 | 10 |
| Static capacitance (pF) | 14000±30% | 15000±30% |
| Max. input voltage (Vp-p) | 25 | 20 |
| Operating Temp (°C) | -20~+105 | -40~+85 |
| Size (mm) | 56.0×44.5 x 33.5 | Ф13.8×6.4 |

51 | INTELLIGENT HOME AUDIOWELL | SENSOR TECHNOLOGY | 52

Lineup

| Model | Appearance | Water dispenser, Coffee machine | Refrigerator | Air purifier, HVAC | Sweeper robot | Robot, UAV | | Humidifier, Aroma Diffuser | Aroma Diffuser Facial sprayer | Chip heat dissipation | Printer | Directional speaker | Smart water management |
|-------------------------------------|------------|------------------------------------|---------------|-----------------------|---------------|---------------|--|-------------------------------|----------------------------------|-----------------------|------------------|---------------------|------------------------|
| Liquid Auto-Fill Control Module | | /// - | \//\ - | | | | | | | | | | |
| Ultrasonic Rangefinder | Ti-Ti- | | | | | • | | | | | | | |
| Dust Sensor | ** | | | ///•/// | | | | | | | | | |
| CO2 Sensor | No. | | | • | | | | | | | | | |
| 300KHz Ultrasonic Sensor | 9 | | | | ///•/// | | | | | | /// - /// | | |
| Liquid Level Managing Module | 100 | | | | • | | | | | | | | |
| Atomizing Transducer | 0 | | | //// - | | | | //// • | | | | | |
| Ultrasonic Atomizer | 0 | | | • | | | | • | • | | | | |
| Microporous Atomizing Transducer | <u> </u> | | | | | | | | ///• | | | | |
| Microporous Atomizing Module | *** | | | | | | | | • | | | | |
| Piezoelectronic Pump | • | | | | | | | | | ///• | | | |
| Ultrasonic Sensor | | | | | | • | | | | | | • | |
| Ultrasonic Flow Sensor Module | حفظت | //// - //// | | | | | | | | | | | /// - |
| Buzzer | . | • | • | • | • | | | • | • | | | | |











Piezoelectri Buzzer

Ultrasonic Ranging Sensor



High SPL Buzzer



INTELLIGENT SECURITY

| 55 | Piezoelectric Ceramic Element |
|----|-------------------------------|
| 56 | Piezoelectric Buzzer |
| 57 | Ultrasonic Ranging Sensor |
| 58 | High SPL Buzzer |
| 59 | Lineup |

55 | INTELLIGENT SECUITY

Piezoelectric Ceramic Element

Features

- Small size, easy to install
- Stable performance

Applications

-Smoke alarm detector







Features

- High reliability
- The material is resistant to high temperatures and has good flame retardancy
- Pass UL standard

Applications

-Smoke alarm detector



AUDIOWELL | SENSOR TECHNOLOGY | 56

| /////////////////////////////////////// | | | |
|---|------------|------------|------------|
| Model | PL0544-014 | PL0653-000 | PL0663-000 |
| Resonant frequency | 3.2 | 3.2 | 3 |
| Resonant impedance | 600 | 350 | 400 |
| Static capacitance (pF) | 25000±30% | 36000±30% | 40000±30% |
| Diameter (mm) | 34.55 | 34.7 | 34.7 |
| Thickness (mm) | 0.54 | 0.52 | 0.53 |

| Model | QJ0868 |
|---|----------------|
| Resonant frequency (Hz) | 3250 |
| S.P.L (dB) | ≥105(12V/25cm) |
| Max. input voltage (v) | 16 |
| Max. Rated Current (mA) | 40 |
| Size (mm) | Ф30.6 x 16.0 |
| /////////////////////////////////////// | |



Ultrasonic Ranging Sensor

Features

- High sound pressure
- Cost-effective
- Good immunity to interference

Applications

- Smoke alarm detector



High SPL Buzzer

Features

- High sound pressure
- High and low temperature resistance

Applications

- Airport bird repellent



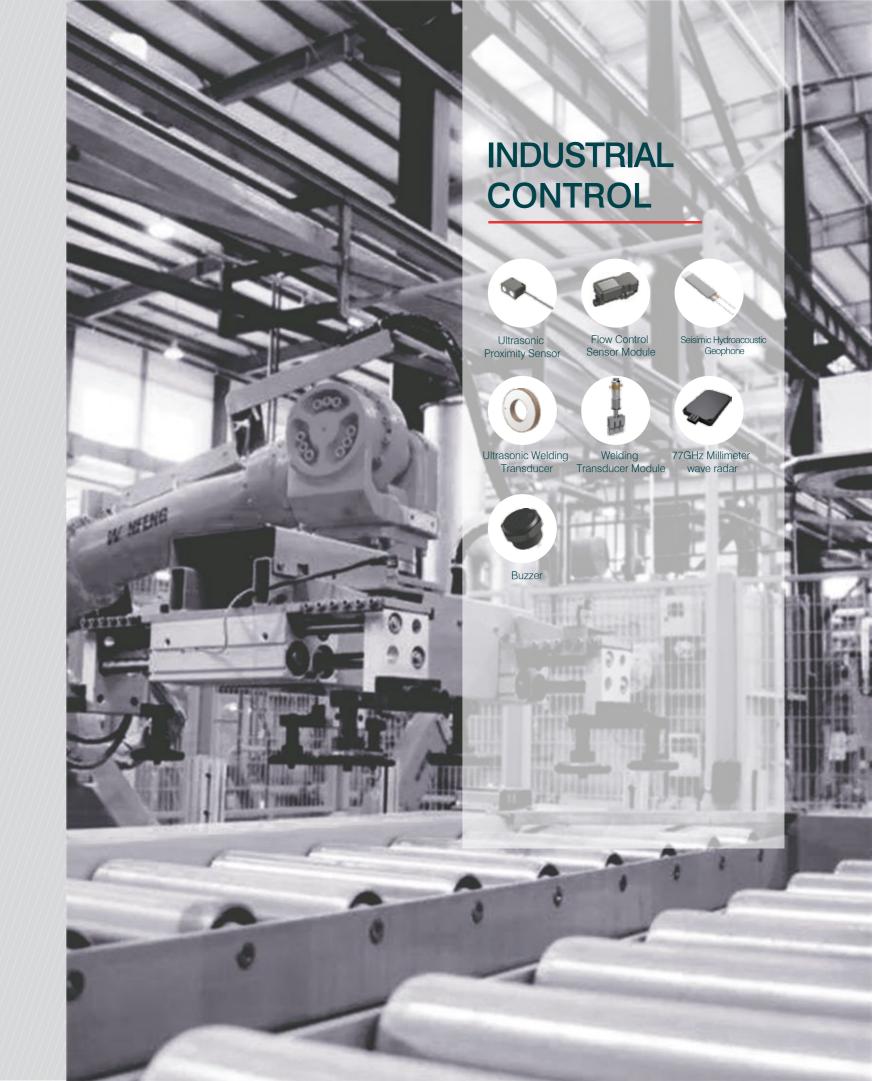


| /////////////////////////////////////// | |
|---|---------------|
| Model | TO0116-009 |
| Appearance | |
| S.P.L (dB) | ≥105 |
| Sensitivity | >-75 |
| Resonant frequency | 40.0±1.0 |
| Capacitance (pF) | 1700±20% |
| Operating Temp (°C) | -40 ~ +85 |
| Size | Ф10.0 x H 7.1 |

| Model | QJ0892-000 |
|--------------------------|-------------|
| Appearance | |
| S.P.L (dB) | ≥110 |
| Sensitivity (KHz) | 2.40±0.5 |
| Resonant frequency | 186000±30% |
| Operating Temp (℃) | -40 ~+105 |
| Size | Ф 45.3 x 22 |
| | |

Lineup

| Model | Appearance | Smoke alarm detector | Strong sound expeller | Security system |
|----------------------------------|------------|----------------------|--------------------------|------------------------|
| Piezoelectric Ceramic Element | | | | |
| Buzzer | | • | | |
| High SPL Buzzer | | | | / //// - |
| Ultrasonic Ranging Sensor | | • | | |



PRODUCTS CATALOGUE



INDUSTRIAL CONTROL

| Ultrasonic Proximity Sensor | 62 |
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| Flow Control Sensor Module | 63 |
| Seisimic Hydroacoustic Geophone | 64 |
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| 77GHz Millimeter wave radar | 67 |
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| Lineup | 69 |

AUDIOWELL | SENSOR TECHNOLOGY | 62

Ultrasonic Proximity Sensor

Features

- Continuous measurement
- Transparent objects can be detected
- High measurement accuracy

Applications

- Production line testing



| Model | AU0009-001 | AU0011-002 |
|---------------------------------|------------|------------|
| Appearance | | |
| Operating Frequency (KHz) | 60 | 255 |
| Detection Range (mm) | 20~350 | 50~250 |
| Detection Accuracy (mm) | ≤10 | ≤10 |
| Operating Voltage (v) | 12~30 | 12~30 |
| Communication Protocol | MPN | 485 |

Flow Control Sensor Module

Features

- Real-time monitor, Cloud data transmission
- Remote control, Visual adjustment
- Not affected by the viscosity, conductivity of the medium

Applications

- Plant water management



Seisimic Hydroacoustic Geophone

Features

- High reliability
- High sensitivity, small vibration and shock can be detected
- High strength structure ensures service life

Applications

- Ocean landform exploration



| Model | US0076 |
|---------------------------------|---------------------|
| Appearance | |
| Operating Frequency (KHz) | 14±1.5 |
| Sensitivity | -192.5±1.5(0-1KHz) |
| Insulation resistanc (ΜΩ) | ≥10000 |
| Free capacitance (pF) | 9.3±5% |
| Max. allowable water depth | 250 |
| | |

Ultrasonic Welding Transducer

Features

- Stable product performance
- Good consistency

Applications

- Mask machine



Ultrasonic Welding Transducer Module

Features

- Stable product performance
- Work efficiently

Applications

- Mask machine



| Model | HN0774-000 | HN0775-000 |
|-----------------------------------|------------|------------|
| Appearance | | |
| Operating Frequency (KHz) | 25.5±5% | 36.1±5% |
| electrostatic capacity (dF) | 1800±20% | 2400±20% |
| Quality factor | >800 | >800 |
| Dimensions (mm) | 60×30×10 | 50×17×6.5 |
| | 60×30×10 | 50×1/×6.5 |

| <u> </u> | <u> </u> | <u> </u> |
|---------------------------------|------------|------------|
| Model | HM0001-000 | HM0001-001 |
| Appearance | | |
| Resonant impedance (Ω) | ≤65 | ≤130 |
| Resonance frequency (KHZ) | 19.6-20.2 | 14.9-15.1 |

77GHz Millimeter wave radar

Features

- It can accurately distinguish multiple targets ahead
- Work around the clock, less affected by weather conditions

Applications

- Level measurement
- Distance measurement



Buzzer

Features

- Small size, easy to install
- Stable performance

Applications

- Device alarm



| Model | Short range radar | Long range radar |
|--------------------------|-------------------|------------------|
| Measurement Range (m) | 0.3~70 | 0.3~250 |
| Accuracy | ±0.1025 | ±0.1025 |
| Speed range (km/h) | -200~+200 | -400~+200 |
| Refresh rate | 20 | 20 |
| Voltage (v) | 4-36 | 4-36 |
| Power (W) | ≤ 5 | ≤ 8 |
| Size (mm) | 78 x 67 x 22 | 138 x 90 x 22 |

| QJ0609-012 |
|----------------|
| |
| 3000 |
| ≥85(12V/100cm) |
| 5.0~18.0 |
| IP66 |
| D36.5×26mm |
| |

Lineup

| Model | Appearance | Production line testing | Plant water management | Face mask machine | Ultrasonic welding machine | Seismometer |
|---|------------|-------------------------|------------------------|----------------------|-------------------------------|-------------|
| Ultrasonic Proximity Sensor | | ///•/// | | | | |
| Flow Control Sensor Module | | | • | | | |
| Seisimic Hydroacoustic Geophone | | | | | | //// |
| Ultrasonic Welding Transducer | 0 | | | • | • | |
| Ultrasonic Welding Transducer Module | | | | \// . | /// - /// | |
| 77GHz Millimeter wave radar | | | • | | | |
| Buzzer | • | | | \//\ - | | |



PRODUCTS CATALOGUE

HEALTH CARE



| Microporous Atomizing Transducer | 7 |
|--|---|
| Ultrasonic Atomizing Module | 7 |
| Open Type Sensor | 7 |
| Ultrasonic Harmonic Scalpel Transducer | 7 |
| Lineup | 7 |

AUDIOWELL | SENSOR TECHNOLOGY | 72

Microporous Atomizing Transducer

Features

- Fine atomized particles
- High through hole rate, up to 97%
- Acid and alkali resistance and cavitation corrosion

Applications

- Medical sprays



| Model | HQ0074 |
|-------------------------------|----------|
| Appearance | 0 |
| Resonant frequency (Khz) | 110±5 |
| Static capacitance (pF) | 3200±20% |
| Resonant impedance | ≤180 |
| Aperture (µm) | 3±1 |

73 | HEALTH CARE

Ultrasonic Atomizing Module

Features

- No electricity in water
- Equipped with water level detection,water automatically shut down
- High conversion efficiency, low power consumption and low heating

Applications

- Hydrogen oxygen ventilator



Open Type Ultrasonic Sensor

Features

- High cost performance
- Strong anti-interference capability

Applications

- Oxygen machine





AUDIOWELL | SENSOR TECHNOLOGY | 74

| Model | UM0122 |
|--------------------------------|-----------|
| Appearance | |
| Input voltage (V) | 24 |
| Resonant Frequency (Mhz) | 1.7±0.05 |
| Current consumption (A) | 0.77±0.07 |
| Atomization (mL/h) | 250-350 |

| Model | TO0039& TO0040 | TO0116-004 |
|---------------------------------|----------------|---------------|
| Resonant frequency | 25.0±1.0 | 40.0±1.0 |
| S.P.L (dB) | ≥110 | ≥105 |
| Sensitivity (dB) | ≥-65 | ≥-70 |
| Max, input voltage (Vrms) | 20 | 20 |
| Static capacitance (PF) | 2300±20% | 1700±20% |
| Size (mm) | Ф16.0 x H 12.0 | Ф10.0 x H 7.1 |

75 | HEALTH CARE

- Features
 Large amplitude
- High reliability

Applications

- Ultracision harmonic scalpel



| Model | HN0780 |
|-------------------------------|----------|
| Appearance | 0 |
| Resonant frequency | 106 |
| Resonant impedance (Ω) | ≤30 |
| Static capacitance (PF) | 660±20% |
| Dimensions (mm) | 16x6x2.5 |

AUDIOWELL | SENSOR TECHNOLOGY | 76

Lineup

| Model | Appearance | Medical atomizer | Oxyhydrogen ventilator | Oxygen Generator | Cutting hemostatic knife |
|---|------------|-----------------------|---------------------------|---------------------|-----------------------------|
| Microporous Atomizing Transducer | 6- | / /// - | | | |
| Ultrasonic Atomizing Module | | • | • | | |
| Open Type Sensor | | | | | |
| Ultrasonic Harmonic Scalpel Transducer | 0 | | | | • |











Haptic Feedback Actuator

Multilayer Ceramic Speaker









Blood Pressure PZT Bone Transducer Conduction Vibrator



INTELLIGENT TERMINAL

| Piezo Haptic Actuator | 79 |
|------------------------------|----|
| Haptic Feedback Actuator | 80 |
| Multilayer Ceramic Speaker | 81 |
| Multilayer Ceramic Actuator | 82 |
| Blood Pressure Transducer | 83 |
| PZT Bone Conduction Vibrator | 84 |
| Lingun | 05 |



Haptic Feedback Actuator

Features

- High reliability
- High sensitivity
- Piezoelectric touch technology, comfortable experience

Applications

- Virtual key feedback
- Switch tactile feedback



AUDIOWELL | SENSOR TECHNOLOGY | 80

| Model | HY0053-001 | HY0066 | HY0087 | HY0099 | HY0103 |
|--------------------------------|--------------------------------------|-------------|---------------|-------------|----------------|
| Resonant frequency (Khz) | 100K~1M composite oscillator | / | / | / | / |
| Static capacitance (pF) | Electrode A: 460 Electrode B: 160 | 385 | 1250 | 60 | 120 |
| Electrode technology | Silver plated | Gold plated | Silver plated | Gold plated | Nickel plating |
| Dimensions (mm) | 5.9×2.5×0.3 | 5.9×1.5×0.3 | 10×3×0.3 | 2.5×0.5×0.3 | 2,5×1×0,3 |

| 11111111111 | /////////////////////////////////////// | /////////////////////////////////////// |
|--------------------------------|---|---|
| Model | PP0873 | HY0097 |
| Appearance | | |
| Resonant frequency | 6.5±1 | 25±1 |
| Static capacitance (pF) | 6000 | 49000 |
| Electrode technology | A single layer | A single layer |
| Dimensions (mm) | φ 16×0.26 | 50×8×0.18 |

81 | INTELLIGENT TERMINAL

Piezo Haptic Actuator

Features

- The acoustic design is simple and can be installed in a narrower and flat space
- Milliwatt power consumption and high conversion efficiency make the product more widely used

Applications

- Phone/tablet screen sound



Multilayer Ceramic Actuator

AUDIOWELL | SENSOR TECHNOLOGY | 82

Features

- High reliability
- Good consistency

Applications

- Laptop/tablet touch feedback

| Model MT0006 Appearance 80 S.P.L 80 Static capacitance 1200±30% Resonant Frequency range (Hz) 300~20000 Max. input voltage (Vp-p) 16 Dimensions (mm) 30×20×2.2 | | |
|--|---------------------------------|-----------|
| S.P.L 80 Static capacitance 1200±30% Resonant Frequency range (Hz) Max. input voltage (Vp-p) Dimensions 30×20×2.2 | Model | MT0006 |
| Static capacitance (nF) Resonant Frequency range (Hz) Max. input voltage (Vp-p) Dimensions 30×20×2.2 | Appearance | |
| capacitance (nF) Resonant Frequency range (Hz) Max. input voltage (Vp-p) Dimensions 1200±30% 300~20000 16 | | 80 |
| Frequency range (Hz) Max. input voltage (Vp-p) Dimensions 300~20000 16 | capacitance | 1200±30% |
| input voltage (Vp-p) 16 Dimensions 30×20×2.2 | Frequency range | 300~20000 |
| 00/20/2.2 | Max. input voltage (Vp-p) | 16 |
| | | 30×20×2.2 |

| ML0020 | ML0021 |
|--------------------|------------------------------|
| 43±1 | 43±1 |
| 650 | 450 |
| Multilayer Ceramic | Multilayer Ceramic |
| 35×2.4×1 | 35×3×0.5 |
| | 43±1 650 Multilayer Ceramic |

Blood Pressure Transducer

Features

- High reliability
- Good consistency

Applications

- Blood pressure monitoring





PZT Bone Conduction Vibrator

Features

- Small size
- High vibration sensitivity
- Wide frequency range

Applications

- Bone conduction headset



| Model | HY0088 |
|--------------------------------|------------|
| Appearance | |
| Resonant Frequency (MHz) | 7.5 |
| Static capacitance (nf) | 450±10% |
| Loss (%) | <3 |
| Dimensions (mm) | 1×1.5×0.25 |

| Model | HX0001 |
|-------------------------------|--------------|
| Appearance | 3 |
| Loss (%) | <4 |
| Static capacitance (pF) | 95±20% |
| Operating temperature | -40~+85 |
| Dimensions (mm) | 4.85×0.5×0.5 |

85 | INTELLIGENT TERMINAL AUDIOWELL | SENSOR TECHNOLOGY | 86

Lineup

| Model | Appearance | Side touch for phone/tablet | Laptop/tablet press touch feedback | Phone/tablet screen sound | | Phone/tablet lens | Blood pressure monitoring | Bone conduction earphone |
|--------------------------------|------------|-----------------------------|---------------------------------------|---------------------------|--|-------------------|------------------------------|--------------------------|
| Pressure Touch Actuator | 10 | / //// - | | | | | | |
| Haptic Feedback Actuator | | • | | | | | | |
| Multilayer Ceramic Speaker | | | | | | | | |
| Multilayer Ceramic Actuator | | | • | | | • | | |
| Blood Pressure Transducer | | | | | | | | |
| Bone Conduction Vibrator | 9 | | | | | | | • |





5G Dielectric Waveguide Filter

89

5G Dielectric Waveguide Filter

Features

- Small size, light weight, thin thickness
- SMT welding, convenient installation
- Customizable size, input and output

Applications

- Base station and repeater
- Microwave communication
- Data transmission







PRODUCTS CATALOGUE

APPLICATIONS



| Sonic Expeller | 92 |
|---------------------|----|
| Solar Bird Repeller | 90 |
| Directional Speaker | 94 |
| Anemometer | 98 |
| Loud Expeller | 90 |
| Facial Sprayer | 9. |

AUDIOWELL | SENSOR TECHNOLOGY | 92

Sonic Expeller

Features

- High decibel drive away
- Active security
- Safe and efficient

Applications

- Expel the crow
- Security system



| Model | EV-R1 |
|----------------------------------|---------|
| Appearance | |
| S.P.L | 125 |
| Resonant frequency | 2~4 |
| Input voltage (v) | 12 |
| Current consumption (mA) | <1500 |
| Weight (g) | 900 |
| Dimensions (mm) | Ф237×60 |

Solar Bird Repeller

Features

- Distributed solar bird repellent device cooperates with the distributed arrangement in the airport and centralized control strategy
- Can output built-in sound source and random noise
- The product structure is easy to install and easy to operate

Applications

- Airport bird repellent



Directional Speaker

Features

- Excellent directivity
- Intelligent control, remote control by partition and group
- Easy to operate

Applications

- Billboards, bus stops



| Model | CQBR-02 |
|--------------------------------|---|
| Appearance | |
| S.P.L (dB) | 125 |
| Resonant frequency (KHz) | 2~4 |
| Input voltage (v) | 12 |
| Power consumption (mA) | <60 |
| Operating temperature | -25~+55 |
| Dimensions (m) | 1.5×0.4×0.3 |
| | /////////////////////////////////////// |

| Model | FSC1-B1-GS |
|-----------------------------------|----------------|
| Appearance | |
| S.P.L (dB) | 85 |
| Power (w) | 25 |
| Directionality | <10 |
| Standard throw distance (m) | 10 |
| Dimensions (mm) | 292 x 163 x 23 |

Anemometer

Features

- Ultrasonic technology, high measurement accuracy
- Stainless steel design, long service life
- Anti-extreme environment, all-weather work
- One-time calibration, no on-site maintenance

Applications

- Ship, weather station



Sonic Shield

Features

- Enhanced the shield with high decibel shocking
- Non-contact measurements
- Highly intensive sound



| Model | HM0001 |
|--|------------------------------|
| Appearance | |
| Wind speed range (m/s) | 0~70 |
| Wind speed accuracy | ±0.1m/s@≤10m/s; ±1%@ > 10m/s |
| Wind direction range (°) | 0~360 |
| Wind direction measurement accuracy (A) | ±2° |
| Input voltage (V) | 24 |
| Operating temperature | -40 ~+85 |

| <u> </u> | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
|--------------------------------------|--|
| Model | FSC1-B1-GS |
| Appearance | A W POLICE ROBBINS |
| S.P.L (dB) | 128±3 |
| Resonant frequency range (KHz) | 2~4 |
| Keep ringing | >70 |
| Dimensions (mm) | 900×500×2 |

97 | APPLICATIONS

Facial Sprayer

- Atomized cold spray with micron water ion, penetrates the pores and deeply moisturizes the skin
- Unique switch, precise control of spray distance and time.
- Sealed water tank design
- Small design, simple and generous appearance



| Model | 103 |
|--------------------------------|--------------|
| Appearance | |
| Input voltage (v) | 5 |
| Battery type | 3.7V/120mAh |
| Power (w) | 1 |
| Water tank capacity (mL) | 7 |
| Weight (g) | 30 |
| Dimensions (mm) | 27.5×20.7×85 |

MILESTONES

| | 1999 | AUDIOWELL established |
|---|----------|---|
| | V | - I |
| Ultrasonic sensor production line established | 2002 | |
| | V | |
| | 2006 | Passed the IATF 16949 Quality Management System Certification |
| | ▼ | - I |
| Awarded the "Guangdong high-tech enterprise" | 2008 | |
| | ▼ | |
| | 2012 | Listed on the" Chinese most potential private |
| | ▼ | company of Forbes 2012" |
| Listed on the "Chinese Top 100 Electronic Companies" | 2014 | |
| | V | |
| | 2015 | Successfully listed on NEEQ |
| | ▼ | 1 |
| Awarded the "Guangdong Famous Trademark" | 2016 | |
| | ▼ | |
| | 2018 | Ultrasonic Sensor Manufacturing Base(Zhaoqing) |
| | ▼ | main building completed. |
| Awarded the "Guangdong Enterprise Technology | 2019 | |
| Center" | ▼ | |
| | 2020 | Awarded the "National advantage in intellectual |
| | | property enterprise" |