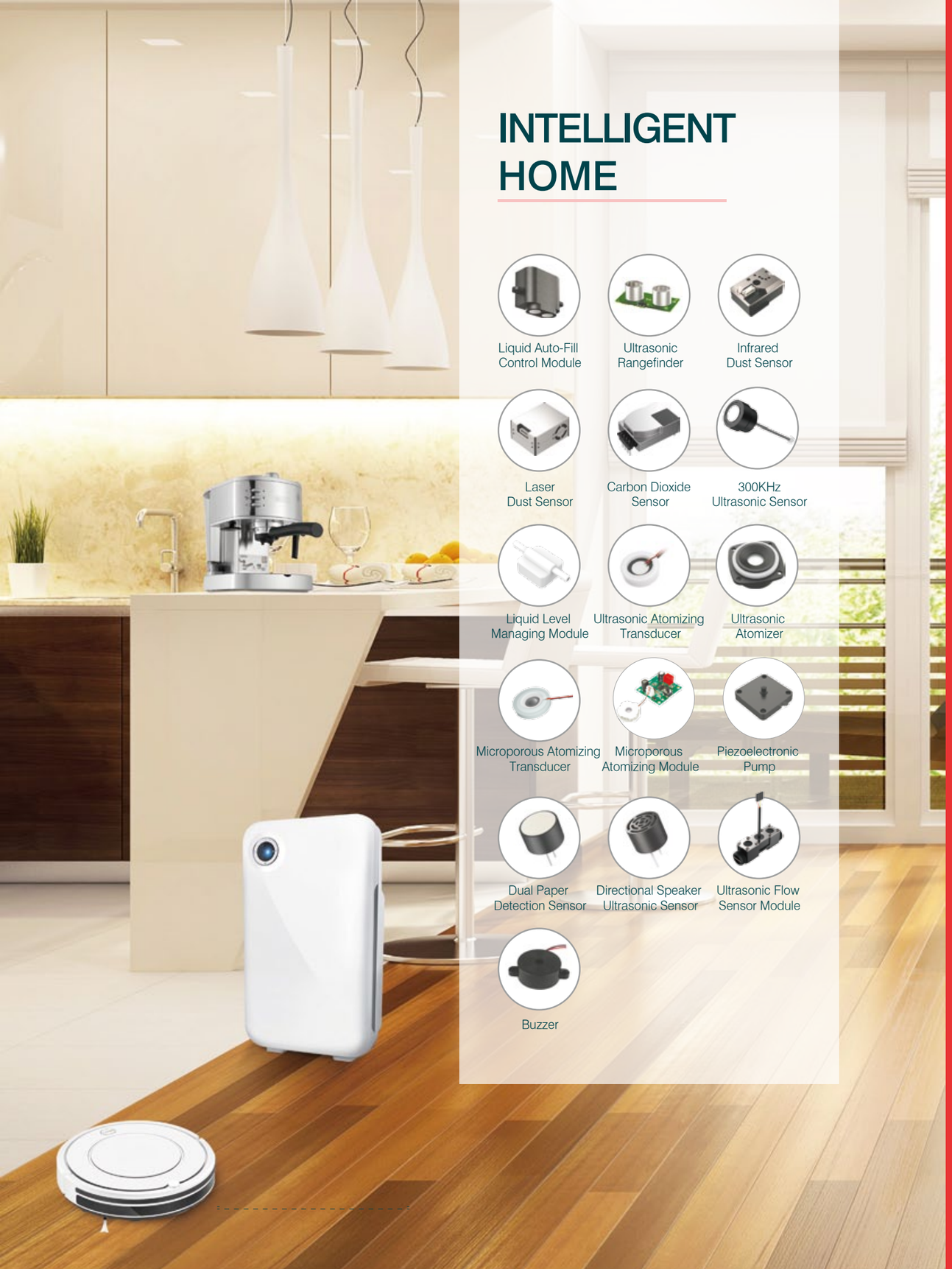

INTELLIGENT HOME

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Liquid Auto-Fill Control Module

Features
- Non-contact measurement
- Short response time

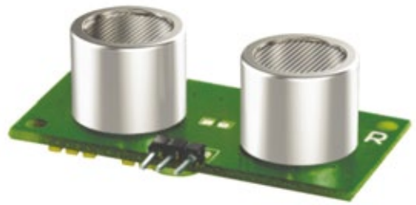
Applications
- Water dispenser、Coffee machine

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

Ultrasonic Rangefinder

Features
- Outstanding directivity
- Non-contact measurement

Applications
- Robot
- UAV



Model	UM0090	UP0152-000
Appearance		
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

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 (ms)	Analog output	Digital output(UART/PWM)	Analog output
Size (mm)	46.2x34.0x17.6	46.2x34.0x17.6	59.0x44.6x17.3

Laser Dust Sensor

Features
- Excellent consistency
- High accuracy

Applications
- Air purifier
- Fresh air system

Model	DL0001	DL0003
Appearance		
Measuring range of particles (μm)	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

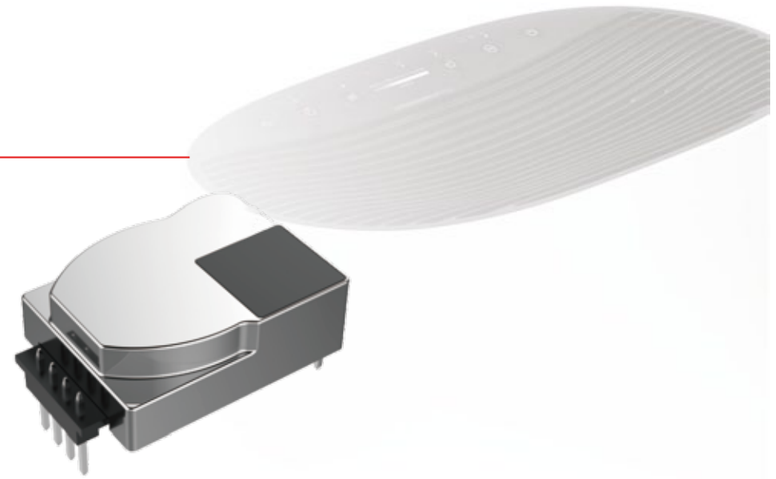
CO2 Monitoring Sensor

Features

- Large detection range
- High precision

Applications

- Air purifier
- Fresh air system



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

300KHz Ultrasonic Sensor

Features

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

Applications

- Sweeping robot

Model	HT0020-000
Appearance	
Frequency (KHz)	300
Decay time (us)	≤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

Model	UM0105
5V power requirements (V)	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 (℃)	+5～-60

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	HL0020-004	HL0001-001	HL0013-085	HL0015-000	HL0017-010
Frequency (MHz)	2.4	3	1.7	1.7	2.4
Lead length (mm)	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

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%

Microporous Atomizing Transducer

Features

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

Applications

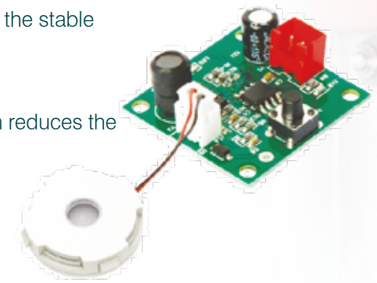
- Humidifier
- Aroma Diffuser

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

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

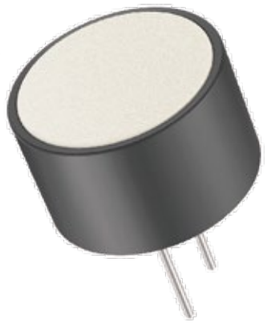
- Small-size aromatherapy machine
- Heat dissipation of core chips
- Micro-flow test instrument

Model	HQ0067
Appearance	
Resonant frequency (KHz)	24±2
Resonant impedance (Ω)	⩽200
Operating voltage (Vp-p)	10～20
Static pressure (kPa)	⩾1.0
Flow rate (L/min)	⩾0.3
Size (mm)	21x21x4

Dual Paper Detection Sensor

Features

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



Applications

- 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 (Vp-p)	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 (℃)	-20～+70	-20～+70	-40～+85
Size (mm)	Φ16.0 x H 12.0	Φ16.0 x H 12.0	Φ8.0 x H 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

Model	FS0001	FS0002	FS0009	FS0010
Appearance				
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 (L/h)	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	TTL	TTL	TTL	TTL

Buzzer

Features

- Small size, easy to install
- Stable performance

Applications

- Home appliance alarm

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 (℃)	-20~+105	-40~+85
Size (mm)	56.0×44.5 x 33.5	Φ13.8×6.4

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						■								
Dust Sensor				■										
CO2 Sensor				■										
300KHz Ultrasonic Sensor					■							■		
Liquid Level Managing Module					■									
Atomizing Transducer				■					■	■				
Ultrasonic Atomizer				■					■	■				
Microporous Atomizing Transducer										■				
Microporous Atomizing Module										■				
Piezoelectronic Pump											■			
Ultrasonic Sensor						■							■	
Ultrasonic Flow Sensor Module		■	■											■
Buzzer		■	■	■	■				■	■				