AUDIOWELL
SENSOR TECHNOLOGY

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AUDIOWELL

PRODUCT CATALOGUE

Smart Metering

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AUDIOWELL INTRODUCTION

Audiowell Electronics(Guangdong) Co., Ltd. (AUDIOWELL) was established in 1999, stock abbreviation: Audiowell, stock code: 920491. The company is a high-tech enterprise specializing in the research, design, production and sales of intelligent sensors and actuators and related applications.

Owning four manufacturing bases, Audiowell possesses the ability of of transducer chip preparation, structural design,intelligent algorithm, precision machining and packaging and testing technology and the main products are intelligent sensors and actuators. Products are widely used in intelligent vehicle, intelligent meters, smart homes, smart security, smart terminals and other fields. Audiowell committs to becoming the main provider of the core components of the perception layer and the execution layer and their solutions.

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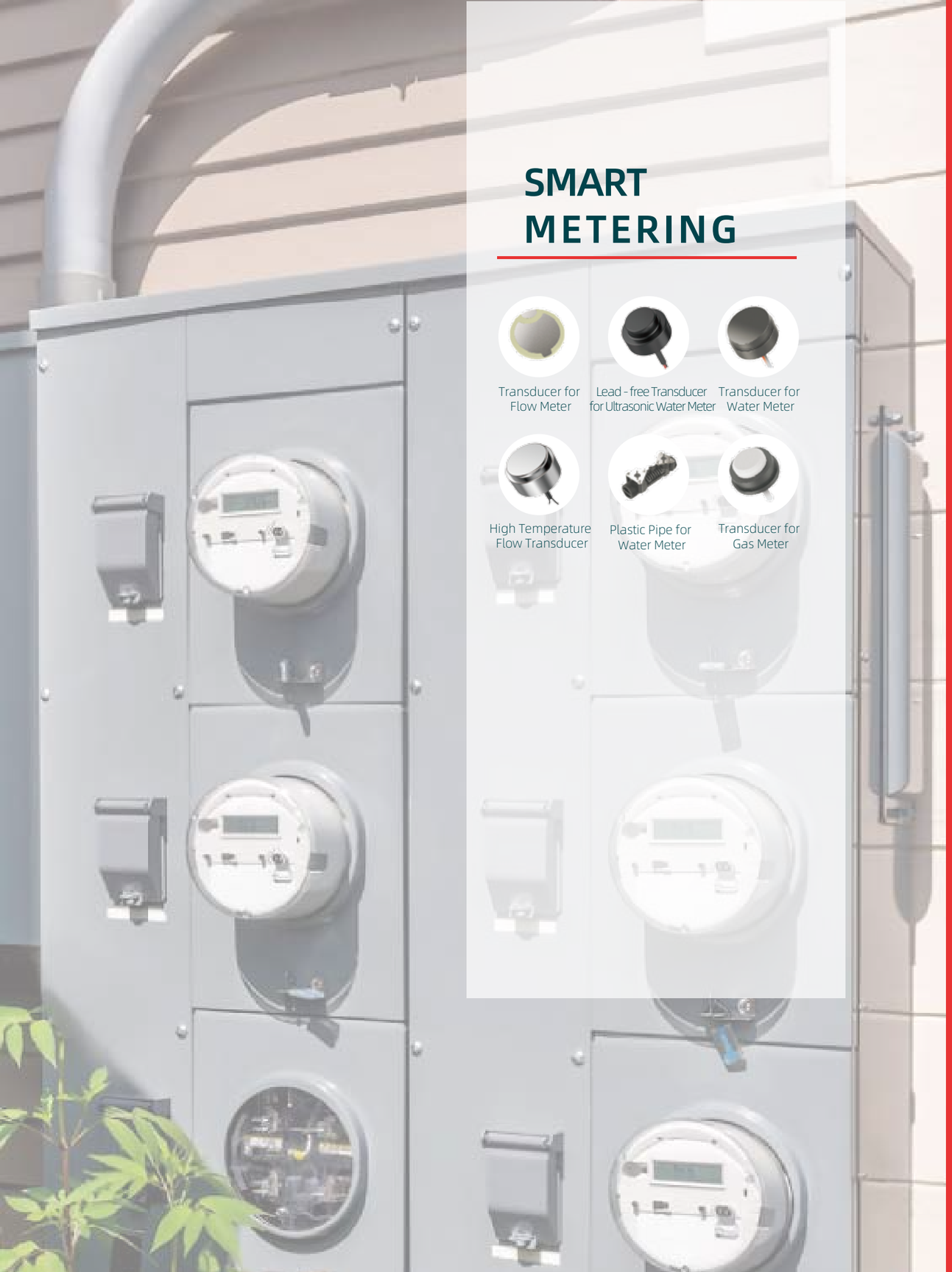

SMART METERING

Transducer for Flow Meter

Lead - free Transducer for Ultrasonic Water Meter

Transducer for Water Meter

High Temperature Flow Transducer

Plastic Pipe for Water Meter

Transducer for Gas Meter

PRODUCTS CATALOGUE

SMART METERING

03 Transducer for Ultrasonic Flow Meter

04 Lead - free Transducer for Ultrasonic Water Meter

05 Transducer for Ultrasonic Water Meter

06 High Temperature Flow Transducer

07 Plastic Pipe for Ultrasonic Water Meter

08 Transducer for Ultrasonic Gas Meter

09 Lineup

Transducer for Ultrasonic Flow Meter

Features

- High reliability
- High and low temperature resistance

Applications

- Ultrasonic flow sensor

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)	Φ10.0×1.0	Φ15.5×1.02	Φ14.0×1.01

Lead - free Transducer for Ultrasonic Water Meter

Features

- Environmentally friendly piezo material: Lead free
- Conform to international potable water standards, RoHS and REACH
- High and low temperature resistance, high pressure resistance
- High stability and reliability

Applications

- Water meters
- Irrigation systems
- Water management for houses
- Water purification systems for whole houses

Model	US0079
Piezo material	Lead-free
Housing material	PPS (NSF, KTW-BWGL, WARS)
Resonant frequency (KHz)	2110±30
Resonant impedance (Ω)	120±40
Max. operating pressure (MPa)	2.5
Operating temperature (℃)	+0.1~+90
Transmitting surface (mm)	Φ10

Transducer for Ultrasonic Water Meter

- High and low temperature resistance, high pressure resistance
- Good consistency
- High stability and reliability

Applications

- Ultrasonic water meter

Model	US0072	US0074	US0078	US0080
Appearance				
Frequency (KHz)	1090±25	1130±30	2110±30	965±30
Pressure resistance (MPa)	2.5	2.5	2.5	2.5
Operating Temp. (°C)	0.1~+90	0.1~+90	0.1~+90	0.1~+90
Installation diameter (mm)	Φ16.8	Φ10.0	Φ10.0	Φ11.2

High Temperature Flow Transducer

Features

- High temperature and pressure resistance
- Suitable for all kinds of liquids, including water, oil, etc
- High reliability

Applications

- Ultrasonic water meter
- Industrial water metering

Model	US0041	US0081
Appearance		
Frequency (KHz)	960±30	965±30
Operating Temp. (°C)	+0.1~+240	+0.1~+120
Pressure resistance (MPa)	2.5	2.5
Installation diameter (mm)	Φ16.8	Φ16.8

Plastic Pipe for Ultrasonic Water Meter

Features

- Stable performance
- Good consistency

Applications

- Ultrasonic water meter

Transducer for Ultrasonic Gas Meters

Features

- Advanced matching material, high sensitivity
- Stable and reliable
- Excellent consistency

Applications

- Ultrasonic gas meter

Model	HS0014	HS0016	HS0017
Appearance			
Pressure resistance (MPa)	1.6	2.5	2.5
Operating Temp. (℃)	0.1~+50	0.1~+50	0.1~+50
Pressure loss (Kpa)	≤40	≤40	≤40
Nominal diameter	DN 15	DN 20	DN 25

Model	GS0001	GS0002	GS0003
Appearance			
Frequency (KHz)	215±10	500	225±5
Pressure resistance (MPa)	0.2	0.2	0.2
Operating Temp. (℃)	-25~+70	-25~+55	-25~+70
Transimiting surface (mm)	Φ14.1	Φ10.8	Φ12

Lineup

Products	Appearance	Ultrasonic Heat Meter	Ultrasonic Water Meter	Ultrasonic Gas Meter
Transducer for Ultrasonic Flow Meters		■	■	
Lead - free Transducer for Ultrasonic Water Meter		■	■	
Transducer for Ultrasonic Water Meters		■	■	
High Temperature Flow Transducer		■	■	
Plastic Pipe for Ultrasonic Water Meters		■	■	
Transducer for Ultrasonic Gas Meters				■