

客户

# 广州市番禺奥迪威电子有限公司

Audiowell Electronics (Guangzhou) Co., Ltd.

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## SPECIFICATION FOR APPROVAL

CUSTOMER					
奥迪威产品编号					
AUDIOWELL P/N					
品名	规格型号				
Name —————	Model				
数量	日期				
QUANTITY	DATE				
	超声波传感器				
ULTRASO	NIC SENSOR SPEC				
·	1.产品型号 Model				
2.产品简介 Intro	2. 产品简介 Introduction				
3.产品应用 App	3. 产品应用 Application				
4. 外观尺寸 Dim					
5. 电性能明细 Spec	cification				
	rface control				
	put protocol				
8. 使用示意图 How					
9. <b>注意事项</b> Noti			NONDANIA CHOD		
客户签认	承认 APPD.	<b>事队早</b>	COMPANY CHOP		
CUSTOMER APPROVAL					
	制作 DWN.	审核 CHK.	核准 APPD.		
<b>产品确认</b> PRODUCT VERIFY					
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注:承认书一式两份,请返回一份 PLEASE SENT ONE OF THE SAME TWO BACK

# 广州市番禺奥迪威电子有限公司

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#### 1. Model

Name: UM0008-001 Model: FA01L02-UM0008-001Z

### 2. Introduction

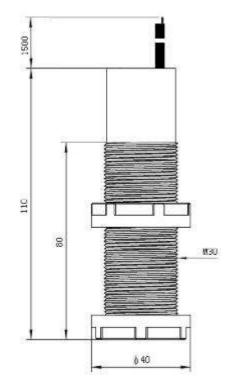
Using ultrasonic technology and incorporate design, the ultrasonic water level sensor detect the water level in a non-contact way, even slurry and other corrosive medium like waste water, hydrochloric acid and hydroxide could be detected. They can be applied to water supply and water disposal.

## 3. Application

- **♦** Water Supply and Water Disposal
  - sluice and filtration Pool;
- **♦** Chemical and Medicine
  - bank pot and material supply controlling system;
- **♦** Mining and Petroleum
  - deposit;
- **♦** Food Manufacturing
  - milk produce andalcohol produce, drink produce;
- **♦** Agriculture and Transportation
  - irrigation system and goods transit controlling;
- **♦ Industry Automatization** 
  - assembly-line controlling and object orientation

## 4. Dimensions





DRAWING NO.: REV.: A1 PAGE: 2/6



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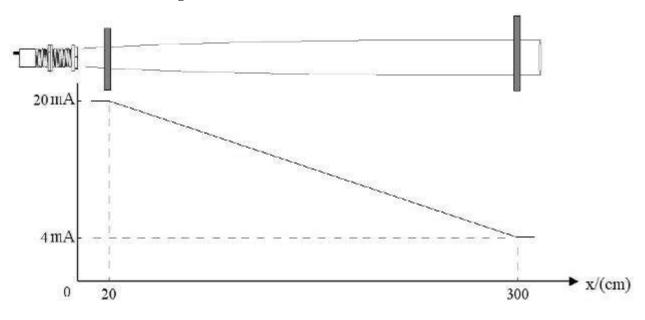




## 5. Specification

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Option			
Measuring Principle	Detect the distance by ultrasonic		
Typical Application	Measure water level and object distance		
Specification			
Frequency	40KHZ		
Detect Range	20~300cm		
Accuracy	$\pm 2$ cm		
Display Accuracy	1cm		
Response time	≥0.1s		
Blind zone	20cm		
Output			
Output current	20cm~300cm corresponding output 20~4mA		
Rated operate condition			
Operation Enviornment	Indoor/outdoor		
Condition temperature	-20°C∼70°C		
Relative Humidity	≤95%		
Design			
Material	PVC		
Length of cable	150±3cm		
Power Supply			
Power	DC 24V		
Current	≤20mA		

The curve of measuring distance and current:



DRAWING NO.: REV.: A1 PAGE: 3/6



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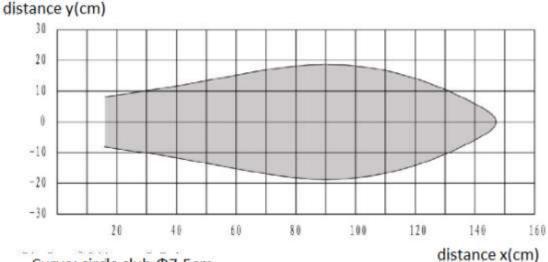
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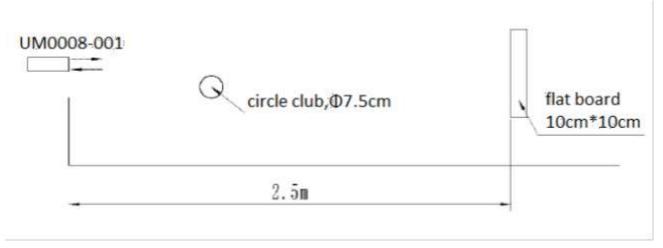
Response Curve 1:

Measuring principle is in an open space



Curve: circle club, Ф7.5cm

Response Curve 2: Measuring Principle



DRAWING NO.: REV.: A1 PAGE: 4/6

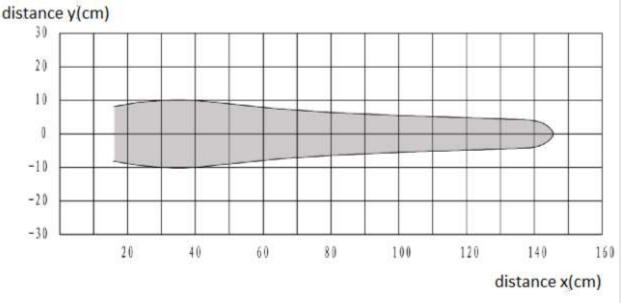
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Curve: circle club, \$\Phi 7.5cm

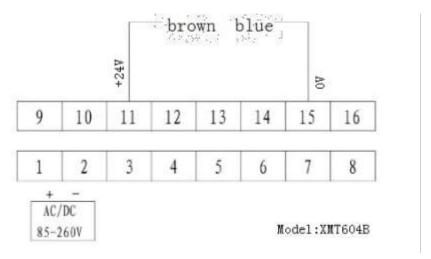
refer object:flat board, 10\*10cm, distance 250cm

Remark: The curve shows that when a  $\Phi$ 7.5cm round bar is placed under the dash area, the round bar can be measured. When the round bar is placed out of the dash area, what can be measured is a  $10 \times 10$ cm flat plate at 2.5 meters or even nothing. If the bar is regarded as a barrier, the flat plate is regarded as liquid level. Then the dash area outside the curve could be regarded as a filtered space of the barrier.

## **6. Interface Control**

Colour	Function	Remark
blue	OV	- (4~20mA)
brown	DC +24V	+ (4~20mA)

example:



DRAWING NO .: REV .: A1 PAGE: 5/6



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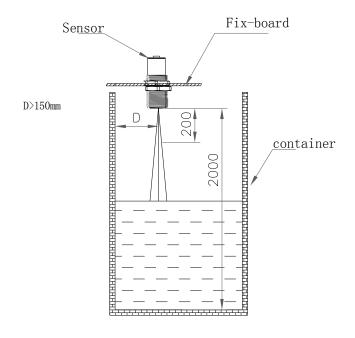
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#### 7. How to install

For liquid detection, installation as follows (Unit, mm)



#### 8. Notice:

- 1. The output current will be 20mA if wrongly tested;
- 2. It is recommended to keep the open diameter of steel plate as 3.3cm-3.7cm when installation, and please make sure the rubber housing is assembled so as not cause resonance between sensor and steel plate, which may lead to failure of sensor.
- 3. Ensure that the plane of sensor and the detect subject is at the same level. And keep it empty 20cm ahead of sensor and a circular radius of 15cm so as to avoid incorrect result.
- 4. Normally, the time interval of data output is  $250\text{ms} \pm 100\text{ms}$ . But if it is tested in a complex environment or the liquid level changes suddently, the time interval will be longer.
- 5. Test is made under room temp., at the humidity of 50%. Deviation is possibly be caused if environment changes.

Accomplished by/Date	Approved by/Date	
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DRAWING NO.: REV.: A1 PAGE: 6/6