



Oscilent Corporation

PRODUCT SPECIFICATION

REV O Dec 15 2016

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
1407-1000-200	Piezoelectric Ultrasonic Liquid Media Sensor



Contents

- o Dimensions
- o Environmental Specifications
- o Electrical Specifications

Applications

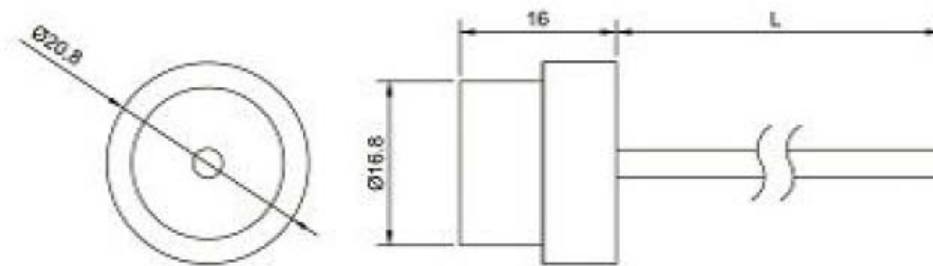
- o Ultrasonic heat meters
- o Water meters
- o Gas meters



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Dimensions



Environmental Specifications

Parameters Description	Unit			
Operating Temperature	°C	+4	~	+100
Storage Temperature	°C	-20	~	+85

Applicable to homogeneous liquid media measurement, including water speed detection, objects distance measurement and obstacle detection.

Electrical Specifications

Parameters Description	
Nominal Frequency	1000 \pm 100kHz
Instantaneous Drive Voltage Max.	220V
Paired Sensitivity	Receiving signal 900mV min when measured peak to peak when driven with 10 cycle burst 2.0V (Vp-p) at 1MHz across a 110mm range.
Bandwidth (-3dB)	200kHz
Capacitance	1200 \pm 20%pF
Impedance (1MHz) Zr	350 \pm 30% Ω
Insulation Resistance (250V)	1 G Ω min.

* Transducer specification at 25 \pm 3°C and 40%~70% R.H. in water