



Oscilent Corporation

PRODUCT SPECIFICATION

REV O Dec 15 2016

Oscilent Controlled Document

| Ordering Code / Part Number | Product Description |
|-----------------------------|--|
| 1403-1000-200 | Piezoelectric Ultrasonic Liquid Media Sensor |



Contents

- o Dimensions
- o Environmental Specifications
- o Electrical Specifications

Applications

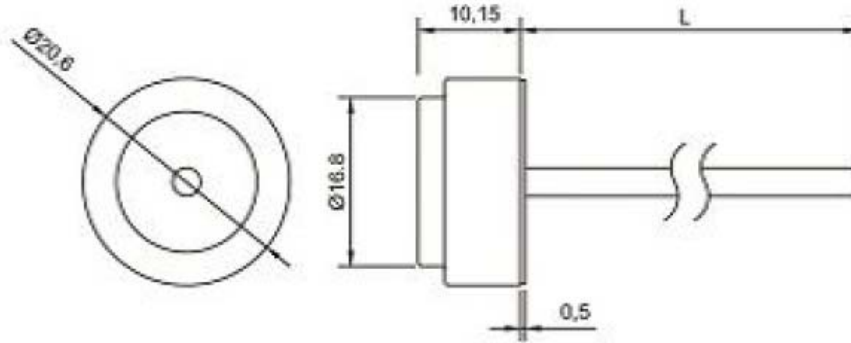
- o Ultrasonic heat meters
- o Water meters
- o Gas meters



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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 ±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 ±20%pF |
| Impedance (1MHz) Zr | 100~500 Ω |
| Insulation Resistance (250V) | 1 GΩ min. |

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