



Oscilent Corporation

PRODUCT SPECIFICATION

REV O Dec 15 2016

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
1410-0200-025	Piezoelectric Ultrasonic Gas Meter Sensor



Contents

- o Dimensions
- o Environmental Specifications
- o Electrical Specifications

Applications

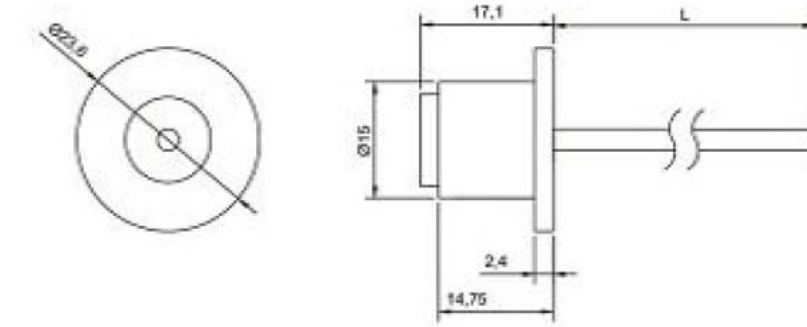
- o Gas meters



Oscilent Corporation
Telephone: 1.949.252.0522
Fax: 1.949.252.0599
Email: sales@oscilent.com



Dimensions



Environmental Specifications

Parameters Description	Unit			
Operating Temperature	°C	-20	~	+50
Storage Temperature	°C	-40	~	+85

Applicable to homogeneous gas media measurement, including gas speed detection, stable gas media range measurement. Customized products are available

Electrical Specifications

Parameters Description	
Nominal Frequency	200 \pm 10kHz
Instantaneous Drive Voltage Max.	110V (Vp-p)
Paired Sensitivity	Receiving signal 80mV min when measured peak to peak when driven with 7 cycle burst 20.0V (Vp-p) at 200kHz across a 70mm air channel.
Bandwidth (-3dB)	25kHz min.
Beamwidth (200kHz)	10° \pm 2°
Capacitance	1100 \pm 20%pF
Impedance (200kHz) Zr	3 \pm 30%k Ω
Insulation Resistance (250V)	1 G Ω min.

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