

# 1 MHz Level Sensor Transducer



Model: LPY1

P/N: H2KLPY11000600

Ultrasonic transducer is designed to cover 1MHz frequency. The transducer works as a signal transmitting and receiving unit. The transducer works with gel pad (or dry coupling) is particularly for non-invasive bottom-up type liquid level sensors for measuring the level of liquid in a plastic container or vessel.



## Features

Blind zone  
Bottom-up type  
Dry gelpad

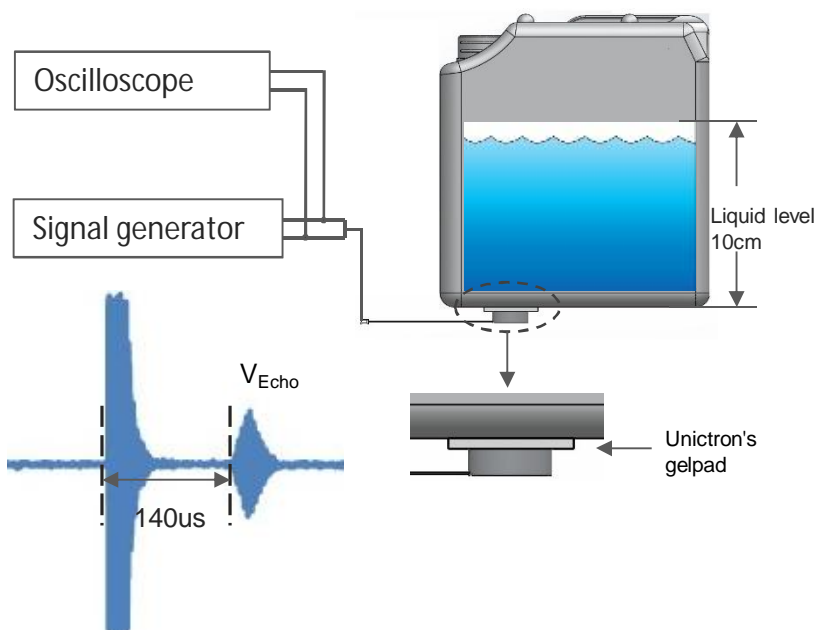
## Specifications

|                         |            |     |
|-------------------------|------------|-----|
| Operation Frequency     | 1          | MHz |
| Echo Voltage            | >50        | mV  |
| Capacitance at 1 kHz    | 1250 ± 20% | pF  |
| Maximum Driving Voltage | 50         | Vpp |
| Operating temperature   | -20~70     | °C  |
| Storage temperature     | -30~80     | °C  |

Measured at temperature :25±5°,40~70%RH

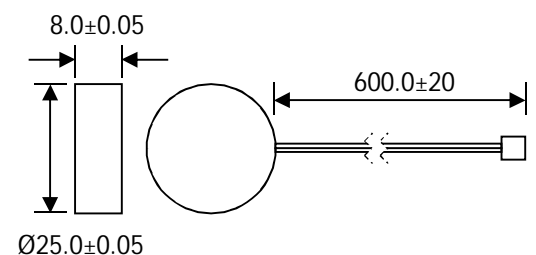
## Sensitivity measurement diagram

Sensitivity measurement  
Liquid level: 10cm (olive oil) / container: HDPE



## Dimensions

Housing material: Aluminum alloy  
Wire: 105°C 300V 30AWG  
Sealing Glue: PU  
Unit: mm



Drive Signal (VDriving): 1MHz 3.3v 20 pules, Drive interval: 10ms  
Echo Signal (VEcho) : For 10cm olive oil level, echo signal appears at around at 140 us



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