

# Level Sensor Transducer

Part Number: H2KLPY11000600



### 1. Introduction:

Unictron's LPY1 ultrasonic transducer is designed to cover 1MHz frequency. The transducer works as a signal transmitting and receiving unit. The transducer works with gelpad (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.



### 2. Part Number: H2KLPY11000600

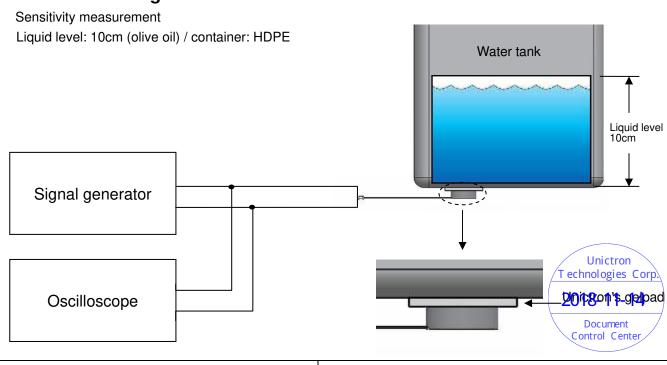
### 3. Electrical Characteristics:

3.1	Operation Frequency	1	MHz
3.2	Echo Voltage(refer to Item 4)	>50	mV
3.3	Capacitance at 1 kHz	1250 ± 20%	pF
3.4	Maximum Driving Voltage	50	Vpp

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

Instrument: Keysight E4990A

## 4. Standard Testing

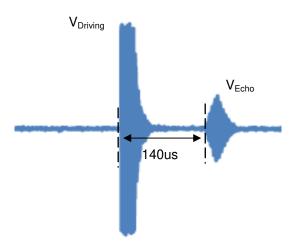


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DESIGNED BY : KK Ting	APPROVED BY : Hank Lee							
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NO.

Drive Signal (V<sub>Driving</sub>): 1MHz 3.3v 20 pules, Drive interval: 10ms

Echo Signal (V<sub>Echo</sub>): For 10cm olive oil level, echo signal appear around at 140us



# 5. Operating and Storage conditions

Operating:

Operating Temperature: -20°C to + 70°C

Maximum driving voltage: 50 Vp-p

Storage:

Storage Temperature: -30°C to + 80°C

Relative Humidity: 40 - 80%

Storage area shall avoid sulfur materials. Sulfur will cause corrosion of electrodes connecting the

piezo element

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# 6. Dimensions: Unit: mm 600±20mm 600±20mm

4.1	Housing	Aluminum alloy
4.2	Housing size	OD:25mm/H:8mm
4.3	Cable length (UL10368 AWG30)	600 ± 20mm
4.4	Connector	2 Pin/Pitch 2.54

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