

Embedded System Design Workshop 1

Pre-workshop Question

Wednesday 12:00

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Question 1

Distance measuring range: 10 to 80 cm

Question 2

(a)

0.4-2.45 V

Typical output at 80 cm: 0.4V

Typical output voltage differential between 10-80 cm: 1.9 V

Typical output at 10cm: $0.4 + 1.9 = 2.3$ V

(b)

The measurements in data-sheet are for reference only. We need to consider noises from the environment and measurements. Different environments and measuring equipments may vary the performance of the sensor.