



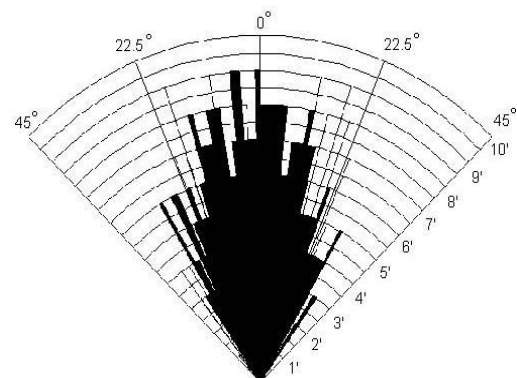
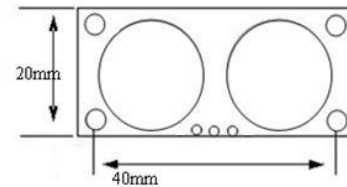
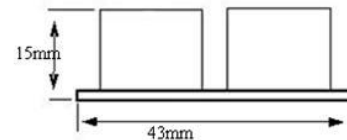
## DYP serial Ultrasonic Sensor

DYP-ME007TX ultrasonic sensor is non-contact distance measurement module, which is also compatible with electronic brick. Output is Serial ports output. It's designed for easy modular project usage with industrial performance.



### Features

- Detecting range: 3cm-4m
- Best in 30 degree angle
- Electronic brick compatible interface
- 5VDC power supply
- Breadboard friendly
- Dual transducer
- Arduino library ready



### Specifications

Supply voltage	5 v
Global Current Consumption	15 mA
Ultrasonic Frequency	40k Hz
<i>Maximal Range</i>	<i>400 cm</i>
Minimal Range	3 cm
Resolution	1 cm
Baud rate	9600 n,8,1
Outline Dimension	43x20x15 mm

*Practical test of performance,  
Best in 30 degree angle*

### **Serial out format**

This module in use of single chip will occupy a IO mouth, connect power supply, module 50ms a location inside each, and from the pin OUT a frame, including 4 8 bits of data and frame format 0XFF + H\_DATA + for: L\_DATA + SUM

1. 0XFF: for a frame to start data for judgment.
2. H\_DATA: distance data of high eight.
3. L\_DATA: distance data of low 8 bits.
4. SUM: data and, used to come to pass. Its  $0XFF + H\_DATA + L\_DATA = SUM$  (only low 8)

Note: H\_DATA and L\_DATA synthetic 16 data, namely to unit of millimeter distance value.