Ultrasonic distance sensors

Long-Range Waterproof Ultrasonic Sensor, RS232/Analog

Model ME007-ULA-V1.2

Long-range waterproof ultrasonic sensor with a horn housing, measuring 27-800 cm on RS232 output or 27-330 cm on analog voltage output, with ±(1 cm + 0.3% of distance) accuracy.



Range	Accuracy
27–800 cm	±(1+S*0.3%) cm
Output	**Frequency**
RS232	40K±1.0K Hz

Features

- Closed transceiver probe with horn housing
- Beam angle ≈65° at 100cm, ≈15° at 300cm
- 5V~12V supply
- Operating temperature -15–60 °C
- Temperature output on some variants

Specifications

RS232 output	
Operating voltage	5V~12V
Average current	<10 mA
Blind zone	0–27 cm
Flat-object measuring range	27–800 cm

Analog voltage output	
Flat-object measuring range	27–330 cm

RS232 output	
Output mode	RS232

Analog voltage output	
Output mode	Voltage analog

RS232 output	
Working cycle	500 ms
Accuracy at room temperature	±(1+S*0.3%) cm
Reference angle at 100cm	≈65 °
Reference angle at 200cm	≈25 °
Reference angle at 300cm	≈15 °
Temperature compensation	Compensated
Probe center frequency	40K±1.0K Hz
Temperature output	Yes

Analog voltage output	
Temperature output	No

RS232 output	
Operating temperature	-15–60 °C

Pin definition	
Pin 1	DC5-12V
Pin 2	RX
Pin 3	TX
Pin 4	Vout
Pin 5	GND
Operating voltage	5-12 V
Output	RS232 / analog voltage output
Measuring range (RS232 output)	27-800 cm
Measuring range (analog voltage output)	27-330 cm

Ordering and support

Pricing, samples, lead time and custom versions: dwinsales@163.com, +86 181 0280 8901.

Guangzhou Dwin Technology Co., Ltd., 4th Floor, Building 2, No. 4 Xingye Road, Xiaowu Second Industrial Zone, Dongyong Town, Nansha District, Guangzhou, China. Specifications are typical values and may change without notice; confirm critical values with DWIN before design-in. Revision 2026-11.