Underwater sensors

Underwater Acoustic Communication Module, 360 Degree, IP68

Model C01-V1.0

Ultrasonic underwater data module with 360° coverage and 300 ms minimum latency, offering remote control, 1-7 byte messaging and, in one variant, positioning and course correction.



Range	Output
1–2000 cm	UART, RS485
Protection	**Supply voltage**
IP68	5 V ±5%

Features

- Communication distance 1-2000 cm
- IP68, water pressure resistance 5 m @ 168 H
- 5V+/-5% supply
- UART controlled and RS485 output
- Low power, suits battery equipment

Applications

Pool-cleaning robots, Underwater robots

Specifications

C01A (dual module)

Module function (C01A)	Remote control, multi-byte
Operating voltage (C01A)	5V+/-5%
Standby current (C01A)	<18 mA
Average operating current (C01A)	<30 mA
Communication distance (C01A)	1-2000 cm
Communication angle (C01A)	360°
Communication latency (C01A)	min 300 ms
Message length (C01A)	1-7 Byte
Output (C01A)	UART controlled, RS485
IP rating (C01A)	IP68, water pressure resistance 5 m @ 168 H

C01B (triple module)	
Module function (C01B)	Remote control, multi-byte, positioning, course correction
Operating voltage (C01B)	5V+/-5%
Standby current (C01B)	<18 mA
Average operating current (C01B)	<30 mA
Communication distance (C01B)	1-2000 cm
Communication angle (C01B)	360°
Communication latency (C01B)	min 510 ms
Message length (C01B)	1-7 Byte
Positioning accuracy (C01B)	3+S*1% cm
Output (C01B)	UART controlled, RS485
IP rating (C01B)	IP68, water pressure resistance 5 m @ 168 H

Installation (features image)	
Ambient temperature	0°C (liquid without floating ice) ~ 60°C
Base station installation	Submerged, more than 10cm below the water line (>10cm)
Slave unit installation	Sensor 30cm above the ground (30cm)

Features image	
Functions	Positioning function; course-correction function
Operating voltage	5V (DC)
Output	UART controlled / RS485
Message length	1-7 byte

Variants and ordering

C01A	dual module: remote control, multi-byte
C01B	triple module: remote control, multi-byte, positioning, course correction

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.