

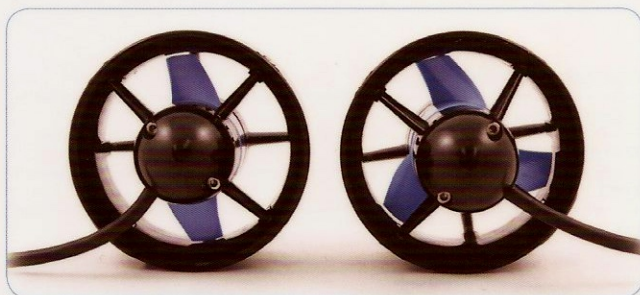
Blue Robotics

Components for Marine Robotics

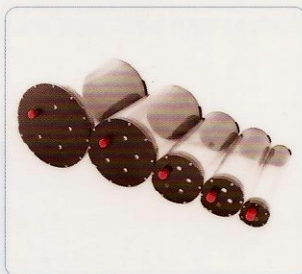
Launched in 2014 and based in Torrance, California, Blue Robotics' mission is to provide low-cost, high-quality components to enable the future of marine robotics. Our first product, the T100 Thruster, was introduced in 2014. Since then, we have launched over 100 products including our flagship product, the BlueROV2.

Thrusters

Low-cost, powerful, and pressure-resistant, the T100 and T200 thrusters are among the most popular thrusters on the market for ROVs, AUVs, and other marine applications.



	T100	T200
Thrust (<i>forward</i>)	2.36 kgf (5.2 lbf)	5.1 kgf (11.2 lbf)
Thrust (<i>reverse</i>)	1.85 kgf (4.1 lbf)	4.1 kgf (9.0 lbf)
Minimum Thrust	0.01 kgf (0.02 lbf)	0.01 kgf (0.02 lbf)
Operating Voltage	6-16V	6-20V
Max Power	135 W	350 W
Max Current	12.5 A	25 A
Length	102 mm (4.0 in)	113 mm (4.45 in)
Nozzle Diameter	100 mm (3.9 in)	
Mounting Holes	4 x M3x0.5 screws	
Cable Length	1 m (39 in)	
Weight in Air	295g (0.65 lb)	344 g (0.76 lb)



Enclosures

The watertight enclosure series are highly configurable with interchangeable end caps, O-ring sealed flanges, customizable lengths, and compatibility with our cable penetrators and sensors.

	2" Series	3" Series	4" Series	6" Series	8" Series
Inner Diameter	51 mm (2 in)	76 mm (3 in)	102 mm (4 in)	152 mm (6 in)	203 mm (8 in)
Outer Diameter	57 mm (2.25 in)	89 mm (3.5 in)	114 mm (4.5 in)	165 mm (6.5 in)	216 mm (8.5 in)
Depth Rating	100 m (328 ft)	150 m (492 ft)	100 m (328 ft)	65 m (213 ft)	40 m (131 ft)



Aluminium Enclosures

These aluminium tubes have increased depth rating as compared with our acrylic series, and a hard anodized finish.

	2" Series	3" Series	4" Series
Inner diameter	51mm	76.2mm	101.6mm
Outer diameter	57mm	88.9mm	114.3mm
Depth Rating	1000m	500m	400m

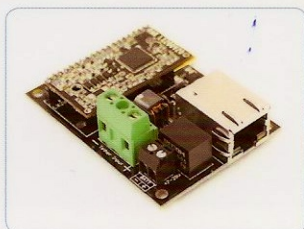


Underwater GPS Developer Kit

The Water Linked Underwater GPS Developer Kit includes the electronics, receivers and locator to get started with underwater positioning and navigation. The system is fully supported on the BlueROV2 and ArduSub.

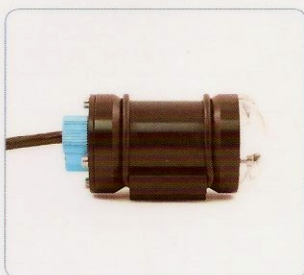
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**Fathom-X**

The Fathom-X Tether Interface Boards provide a high-speed, long-distance Ethernet connection through a single twisted pair of wires.

Bandwidth (100 m distance)	80 Mbps
Working Frequency	2-30 MHz
Distance Capability	300+ m (985+ ft)

**Lumen**

The Lumen Subsea Light was designed specifically for use on ROVs, AUVs, and other subsea applications.

Brightness	0-1500 lumens (dimnable)
Beam Angle	135 degrees in water
Pressure Rating	300 m (985 ft)
Operating Voltage	10-48V
Max Power	15 W

**Bar30/Celsius**

- The Bar30 Pressure/Depth Sensor and the Celsius temperature sensor are high precision digital subsea sensors. Open-source libraries are available to interface with both sensors.

Bar30

Measurement Range	0-300 m (0-985 ft)
Depth Resolution	2 mm (0.08 in)
Operating Range	0-50 bar
Supply Voltage	2.5-5.5 V
I ² C Logic Voltage	2.5-3.6 V
Recommended Hole Size	10 mm

Celsius

Operating temp	-40 to +125°C
Accuracy	+/- 0.1 °C
Response time	1 sec
Supply Voltage	2.5-5.5 V
I ² C Logic Voltage	2.5-3.6 V
Recommended Hole Size	10 mm

Revision 2/17

