S2C Beacon

PRODUCT INFORMATION

NEW product

Available in Q2 2014:

any S2CR underwater acoustic modem can now be configured as an S2C beacon - a compact battery-powered device with built-in acoustic release mechanism and floatation collar. With EvoLogics' patented S2C technology, the beacon is a great communication and positioning performer, optimized for short- and mid- term deployment and easy recovery back to the surface. As a transponder for LBL or USBL positioning, an underwater communication network or relay chain node, the S2C beacon can benefit multiple marine applications.

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PRODUCT INFORMATION

APPLICATIONS

Transponder for LBL and USBL positioning

Autonomous relay station

Autonomous underwater network node

SPECIFICATIONS AND CONFIGURATION OPTIONS

	COMMUNICATION DEVICE	S2C R-series underwater acoustic modem or
		S2C R USBL-series underwater communication and positioning device
	ACOUSTIC RELEASE	Depth rating: 10000 m, Release load: 250 kg, maximum static load: 500 kg
HOUSING	DELRIN	Plastic non-magnetic corrosion-resistant housing for short-term deployments, depth rating 200 m
	ALUMINIUM ALLOY	Light metal housing for short-term deployments, depth rating 1000 m
	STAINLESS STEEL	Robust metal, suitable for long-term deployments in harsh environments, depth rating 2000 m
	TITANIUM	Corrosion resistant, suitable for long-term deployments in harsh environments, depth rating 6000 m
INTERFACE	1 CONNECTOR	RS-232 [1] or
		Ethernet
	2 CONNECTORS	RS-232 + RS-232 or
		RS-232 + Ethernet
	POWER SUPPLY	Internal rechargeable battery (24V, 5Ah), other options upon request
MODULES	WAKE-UP MODULE [2]	RS-232 interface ✓
		Ethernet interface ✗
		RS-232 + RS-232 interface ✓
		RS-232 + Ethernet interface ✗
	SENSORS	Optional pressure sensor
	FLOATATION COLLAR	Easy recovery to the surface

CONFIGURATION EXAMPLE

S2CR 18/34 BEACON Transponder Mode

QUIECENT TIME	100 days with Wake Up Module	HOUSING	Delrin
		OPERATING DEPTH	up to 200m
NUMBER OF REPLIES	100.000 (2.8 W, 1000 m), unlimited with ext. power supply	OPERATING RANGE	up to 3500 m
		ACOUSTIC CONNECTION	up to 13.9kbit/s
		DIMENSIONS (with/without collar)	Ø 200 mm/ Ø 110 mm x 515 mm
		WEIGHT (dry/wet)	ca. 6 kg/2 kg

[1] One RS-232 Interface can be replaced with either RS-485 or RS-422 interface. More interface configurations available by special request. Contact EvoLogics for more information.
[2] The Wake Up Module turns the rest of the device on if it detects incoming acoustic signals or incoming data on the host interface. Once the device completes receiving or transmitting data, it switches itself off.