

S2C Beacon

UNDERWATER ACOUSTIC MODEMS



S2C beacon is a configuration of an EvoLogics underwater acoustic modem, equipped with an acoustic release mechanism and floatation collar for recovery to the surface

Built-in battery and low power consumption are an ideal combination for long-term deployment

S2C Technology offers eliable data transmissions with up to 31.2 kbit/s depending on the model

Beacon configuration is available for all S2C R-series modems

	OPERATING RANGE		1000 - 10 000 m depending on model*
GENERAL	FREQUENCY		HIgh-, mid- and low-frequency models*
	TRANSDUCER BEAM PATTERN		Directional and omnidirectional models*
	ACOUSTIC CONNECTION		up to 31.2 kbit/s depending on model*
	BIT ERROR RATE		less than 10 ⁻¹⁰
INTERFACE	INTERNAL DATA BUFFER		1 MB, configurable
	HOST INTERFACE		Ethernet, RS-232
PHYSICAL ²¹ POWER INT	INTERFACE CONNECTOR		up to 2 SubConn® Metal Shell 1500 Series
		Stand-by Mode	2.5 mW
		Listen Mode	5 - 285 mW
		Receive Mode	0.8 W
		Transmit Mode	up to 70 W depending on model*
	POWER SUPPLY		Internal rechargeable battery 5 Ah or 10 Ah
	DIMENSIONS	housing/transducer	Ø113 mm x466 mm/Ø110 mm x140 mm
		float collar/total length	\varnothing 448 mm x 370 mm / 850 mm
	WEIGHT in air/buoyancy	Delrin	19700/7000 g
		Aluminium Alloy	22700/4900 g
		Stainless Steel	63000/5300 g
		Titanium	58000/10000 g

* See S2C R-series flyer for details.

¹¹ Power consumption for RS-232 interface. Add 500 mW if an Ethernet interface is installed. Add 300 mW if the Wake-Up Module is installed. User-configurable Listen Mode is only available with a Wake-Up module installed. Power consumption in Listen Mode depends on Listen Mode settings.

²¹ Dimensions and weight for S2C 15/27 Beacon in Titanium housing and corresponding floatation collar. Dimensions and weights of other builds vary.

Specifications subject to change without notice. © Evologics GmbH - February 2018

1



S2C Beacon

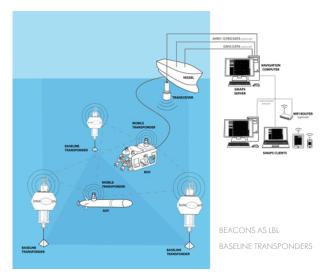
UNDERWATER ACOUSTIC MODEMS

The applications include:

Seafloor transponder for LBL positioning Underwater acoustic sensor networks Multiparameter sensor probles Underwater observatories

MODULAR EXTENSIONS AND CONFIGURATION OPTIONS

	DELRIN	Plastic non-magnetic corrosion-resistant housing for short-te depth rating 200 m	erm deployments,
	ALUMINIUM ALLOY	Light metal housing for short-term deployments, depth rating 1000 m	
	STAINLESS STEEL	Robust metal, suitable for long-term deployments in harsh a depth rating 2000 m	environments,
	TITANIUM	Corrosion resistant, suitable for long-term deployments in l ments, depth rating 6000 m	narsh environ-
	1 CONNECTOR	RS-232 or	
		Ethernet	
	2 CONNECTORS	RS-232 + RS-232 or	
		RS-232 + Ethernet	
	WAKE-UP MODULE	RS-232 interface	\checkmark
	turns the rest of the device on once it detects	Ethernet interface	×
	incoming data or acoustic signals; turns device off after completing the transmis-	RS-232 + RS-232 interface combination	\checkmark
	sion/reception	RS-232 + Ethernet interface combination	×
	PRESSURE SENSOR	Built-in pressure sensor	
	ACOUSTIC RELEASE DEVICE	Recovery to the surface triggered by an acoustic command	d signal
	FLOATATION COLLAR	Syntactic foam collar for recovery to the surface	
	RADIO LOCATOR	Radio locator beacon to assist recovery on the surface	



Specifications subject to change without notice. © Evologics GmbH - February 2018

HOUSING

INTERFACE

MODULES

2