

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 reliable data transmissions with up to 31.2 kbit/s depending on the model

Beacon configuration is available for all S2C R-series modems

GENERAL	OPERATING RANGE		1000 - 10 000 m depending on model*
	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
	INTERFACE CONNECTOR		up to 2 SubConn® Metal Shell 1500 Series
POWER	CONSUMPTION ¹⁾	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	
PHYSICAL ²⁾	DIMENSIONS	housing/transducer	∅ 113 mm x 466 mm / ∅ 110 mm x 140 mm
		float collar/total length	∅ 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.

¹⁾ 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.

²⁾ Dimensions and weight for S2C 15/27 Beacon in Titanium housing and corresponding floatation collar. Dimensions and weights of other builds vary.

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The applications include:

- Seafloor transponder for LBL positioning
- Underwater acoustic sensor networks
- Multiparameter sensor probes
- Underwater observatories

MODULAR EXTENSIONS AND CONFIGURATION OPTIONS

HOUSING	DELIRIN	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 or Ethernet
	2 CONNECTORS	RS-232 + RS-232 or RS-232 + Ethernet
MODULES	WAKE-UP MODULE	RS-232 interface <input checked="" type="checkbox"/> Ethernet interface <input checked="" type="checkbox"/> RS-232 + RS-232 interface combination <input checked="" type="checkbox"/> RS-232 + Ethernet interface combination <input checked="" type="checkbox"/>
	turns the rest of the device on once it detects incoming data or acoustic signals; turns device off after completing the transmission/reception	
	PRESSURE SENSOR	Built-in pressure sensor
	ACOUSTIC RELEASE DEVICE	Recovery to the surface triggered by an acoustic command signal
	FLOATATION COLLAR	Syntactic foam collar for recovery to the surface
	RADIO LOCATOR	Radio locator beacon to assist recovery on the surface

