



S2C Technology: reliable data transmissions with up to 6.9 kbit/s

Advanced data delivery protocol

Hemispherical beam pattern, optimized for vertical and slant channels

Depth rated long-range device

TECHNICAL SPECIFICATIONS

GENERAL	OPERATING DEPTH	Delrin	200 m
		Aluminium Alloy	1000 m
		Stainless Steel	2000 m
		Titanium	6000 m
	OPERATING RANGE		8000 m
	FREQUENCY BAND		7 - 17 kHz
	TRANSDUCER BEAM PATTERN		hemispherical
CONNECTION	ACOUSTIC CONNECTION		up to 6.9 kbit/s
	BIT ERROR RATE		less than 10 ⁻¹⁰
	INTERNAL DATA BUFFER		1 MB, configurable
	HOST INTERFACE ¹⁾		Ethernet, RS-232 (RS-485/422*)
	INTERFACE CONNECTOR		up to 2 SubConn® Metal Shell 1500 Series
POWER	CONSUMPTION	Stand-by Mode	2.5 mW
		Listen Mode ²⁾	5 - 285 mW
		Receive Mode ³⁾	0.8 W
		Transmit Mode	3 W, 2000 m range 10 W, 4000 m range 40 W, 8000 m range 45 W, max. available
	POWER SUPPLY ⁴⁾		External 24 VDC (12 VDC*) or internal rechargeable battery*
PHYSICAL	DIMENSIONS ⁵⁾	Housing	Ø 113 mm x 260 mm
		Total length	420 mm
	WEIGHT dry/wet	Delrin	4700/600 g
		Aluminium Alloy	4160/1560 g
		Stainless Steel	8000/5800 g
		Titanium	7780/5180 g

* optional

¹⁾ See the Configuration Options for available standard interface combinations.

²⁾ User-configurable Listen Mode is only available with a WakeUp module installed. Power consumption in Listen Mode depends on Listen Mode settings.

³⁾ Power consumption for the RS-232 interface option. Add 500 mW for the Ethernet interface option. Add 0.3 W for Wake-Up Module.

⁴⁾ Contact EvoLogics for more information on power supply options.

⁵⁾ Dimensions of a Delrin housing, other builds are slightly larger. Marked* weights are estimates.

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APPLICATIONS

Reliable long-range communication
 Communication link for deep-sea AUVs and ROVs
 Seafloor observatories
 Underwater acoustic sensor networks

CONFIGURATION OPTIONS

	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
	MODULES	
	WAKE-UP MODULE ²⁾	RS-232 interface ✓
		Ethernet interface ✗
		RS-232 + RS-232 interface ✓
		RS-232 + Ethernet interface ✗

OPERATING CONDITIONS

TEMPERATURE	Operating	0°C - +60°C
	Storage	-4°C - +60°C
MAXIMUM SHOCK		20g, 11 ms half sine
MAXIMUM VIBRATION		frequency range 5-150 Hz, 5-25 Hz: ±2mm; 25-50Hz: 5g

¹⁾ One RS-232 Interface can be replaced with a 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.