R-Series Modem

S2CR 18/34 HIGH PERFORMANCE

Key features
- Data rate – 13.9 kbits/ sec
- medium distance (3500 m)
- horizontally omnidirectional

Ideal for
- High speed data rate applications
- Shallow water and medium range applications
- Autonomous under water vehicles/ Remotely operated vehicles
- Sea floor observatories
- Operations near noisy conditions

Performance on demand
- All relevant modem settings are software operate and can easily be changed remotely via telemetry
- The maximum transmission power of 80 W provides a huge reserve for crucial situations
- Can be integrated with USBL model for positioning and tracking along with data transmission

SPECIFICATION

WORKING RANGE.	3500 meters
MAX. ACHIEVABLE RANGE.	4500 meters (with high power in good conditions)
MAXIMUM DEPTH.	100, 1000, 2000 meters
HYDROACOUSTIC LINK.	up to 13.9 Kbit/s
INTERFACES.	2 x RS 232 ; Ethernet
INTERNAL DATA BUFFER.	1 MB (user configurable)
ERROR RATE.	less than 10^{-9} (with correction algorithm)
POWER CONSUMPTION.	*Standby mode:* 3 mW *Receive mode:* 20..500 mW (adjustable toggle cycle) *Transmit mode:* For range of 1000 meters - 2.8 W For range of 2000 meters - 8 W For range of 3500 meters - 35 W high power mode provides up to 80 W for transmission
TRANSDUCER BEAM PATTERN.	horizontally omnidirectional
OPERATING FREQUENCY BAND.	18 ... 34 kHz
DIMENSIONS.	
housing	Ø 100 mm; length 170 mm
length with transducer	260 mm
WEIGHT.	
with Aluminium alloy (AlMg) housing, in air / water	2170 g / 1470 g
with Plastic (Delrin) housing, in air / water	1420 g / 720 g
with Stainless Steel housing, in air / water	8000 g / 5800 g

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