R-Series Modem

S2CR 48/78 HIGH SPEED

Key features
- High Speed – 31.2 kbits/ sec
- Suitable for depths of 1000m
- horizontally omnidirectional

Ideal for
- High speed data rate applications
- Shallow water and short 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.	1000 meters
MAX. ACHIEVABLE RANGE.	2000 meters (with high power in good conditions)
MAXIMUM DEPTH.	100, 1000, 2000 meters
HYDROACOUSTIC LINK.	up to 31.2 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 250 meters - 5.5 W For range of 500 meters - 8 W For range of 1000 meters - 18 W high power mode provides up to 60 W for transmission
TRANSDUCER BEAM PATTERN.	horizontally omnidirectional
OPERATING FREQUENCY BAND.	48 ... 78 kHz
DIMENSIONS.	
housing	Ø 100 mm; length 170 mm
length with transducer	260 mm
WEIGHT.	
with Aluminium alloy (AlMg) housing, in air / water	2100 g / 1400 g
with Plastic (Delrin) housing, in air / water	1390 g / 690 g
with Stainless Steel housing, in air / water	8000 g / 5800 g

EvoLogics GmbH I Ackerstrasse 76 I 13355 Berlin, Germany
phone: +49 (0)30 46 06 82 26 I fax: +49 (0)30 46 06 82 15
email: info@evologics.com I www.evologics.com