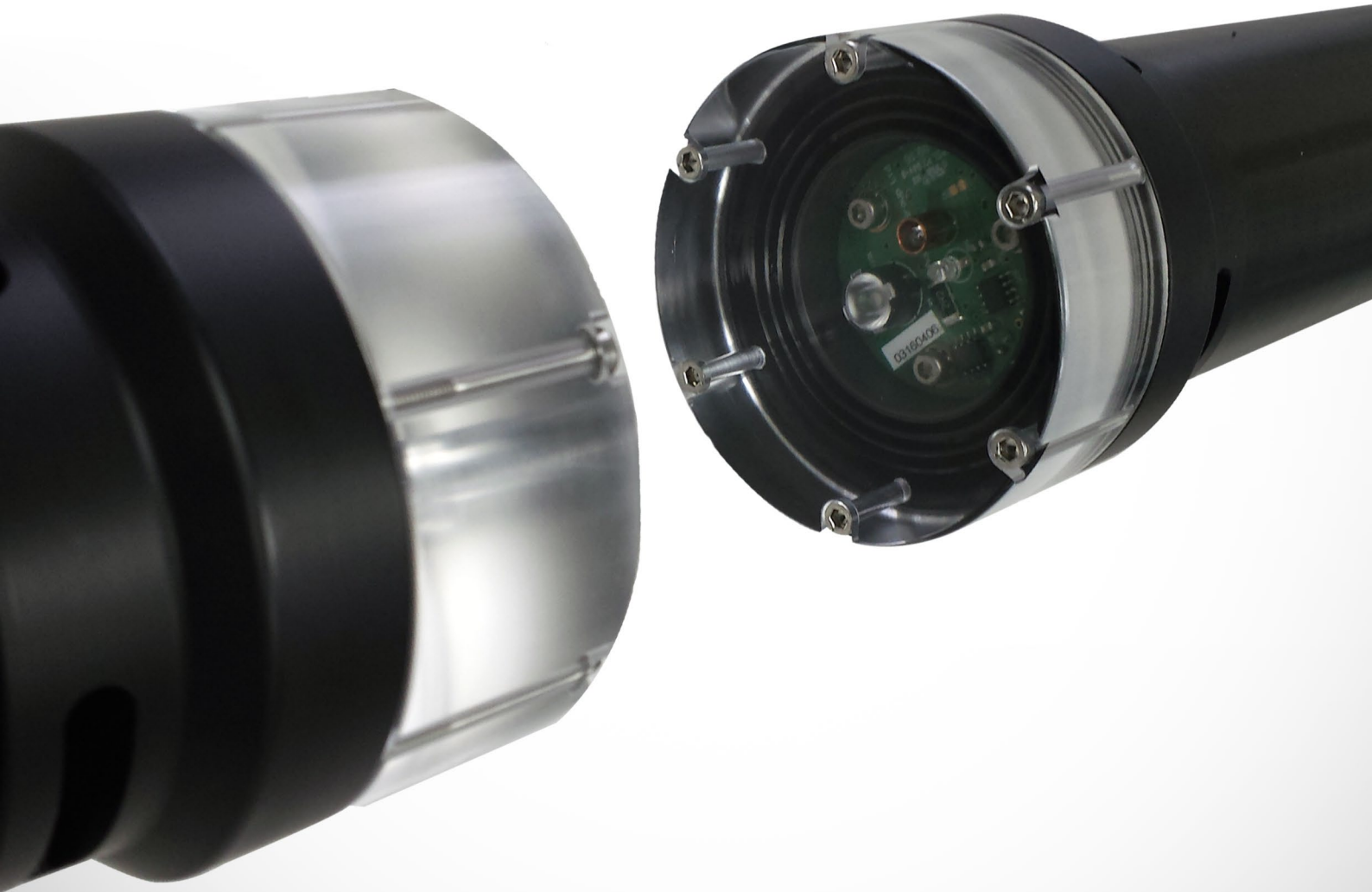


Lightweight Subsea Optical Modem

AQUAmodem® Op2L

The AQUAmodem® Op2L is a compact, neutrally buoyant optical modem designed for divers and small ROVs. It provides short-range optical communication with underwater equipment, enabling interrogation, command and data download without a physical data cable.

Compatible with RS232 instruments, including Aquatec's HYDROlog® hydrotest monitoring range, the Op2L offers a cost-effective alternative to ROV-mateable connectors and cables. This helps reduce operational costs and increase deployment flexibility.



KEY FEATURES

- Wireless optical link to underwater equipment
- Interrogation, command and data download
- Transparent RS232 link for cable-replacement operation
- High-speed wireless data transfer
- RS232 serial interface compatibility
- Designed for divers and small ROVs
- 500 m maximum depth

APPLICATIONS

- Ocean observation and monitoring
- Real-time subsea data viewing
- Subsea instrument status checks
- Data download without instrument recovery
- Diver and small inspection-class ROV access to deployed instruments

TECHNICAL SPECIFICATIONS

Interface	RS232 levels
Protocol	Any format – transparent link (link deals with the communication protocol)
Baud rate	115,200 baud
Transmission type	Digitally coded telemetry with error detection
Data throughput*	10.2 kBytes/s
Light band	Cyan visible light
Operating range	Typically 1 m, depending on environment
Maximum depth	500 m
Temperature	Operating: -5°C to 40°C Storage: -40°C to 65°C
External power	ROV unit: 9 VDC to 36 VDC Subsea unit: 6.5 VDC to 32 VDC
Serial wake-up	On receipt of RS232 serial data for subsea unit Optional on receipt of RS232 serial data for ROV unit
Optical wake-up	On receipt of optical interrogation
Dimensions	285 mm length x 72 mm maximum diameter 60 mm main housing diameter
Weight	~1 kg in air ~0 kg in water
Material	Acetal with Perspex window
OPTIONS	
Complete configuration	Pair of optical modems supplied with external battery pack, Y cable, ROV cable and test cable
ROV configuration	Single optical modem supplied with ROV cable and test cable
Subsea configuration	Single optical modem supplied with external battery pack and Y cable

*Measured by transmitting 2,000-byte packets at 250 ms intervals. Data throughput is calculated as an average of 100 transmissions.

ALSO AVAILABLE



HYDROskid™
Standalone hydrotest monitoring system



SURFACE TESTER
Optical communications tester for deck use



AQUAmodem® Op2
Subsea optical modem - 3,500 m depth rating