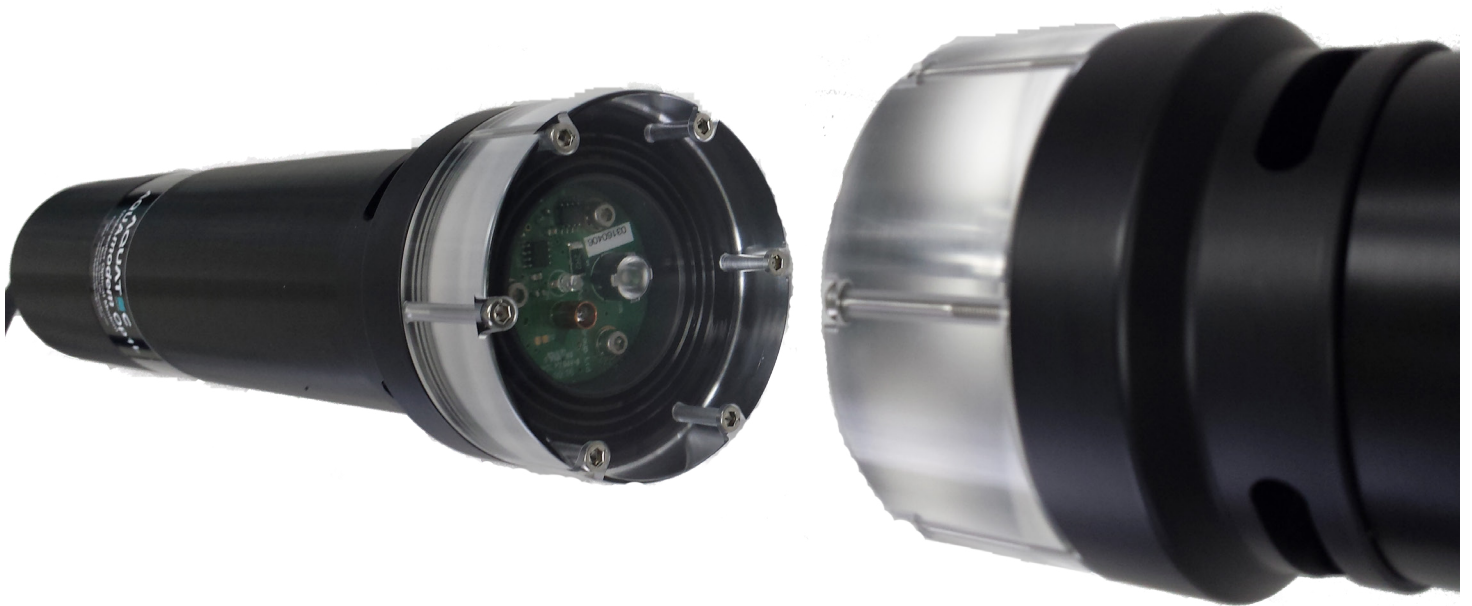


## DATASHEET

# AQUAmodem™ Op2L

Lightweight subsea optical modem



### KEY FEATURES

- Short range interrogation, commanding and data download from subsea instruments
- Compatible with instruments with RS232 serial interfaces
- Depth rated to 500 m
  
- New higher speed data transfer
- Ideal for small ROVs and divers
  
- Compatible with the new AQUAlogger 310TY advanced turbidity logger and AQUAlogger 310PT temperature and depth logger

### APPLICATIONS

- Ocean observation and monitoring
- Real time data view
- Instrument status checks
- Subsea data download
- Redeploying instruments subsea

### MODEM PACKAGES

- Complete modem set - including modem pair, subsea battery pack, and ROV, surface & subsea cable sets
- ROV side modem set - including ROV and test cables
- Subsea modem set - including subsea cable set and battery

## Technical specification

<b>Environmental</b>	Operating Depth	500 m
	Temperature	Operating: -5°C to 40°C Storage: -40°C to 65°C
<b>Telemetry</b>	Light band	Cyan visible light
	Operating Range	Typically 1 m depending on environment
	Transmission type	Digitally coded telemetry with error detection
	Typical Maximum Data Throughput*	10.2 kBytes/s
	Addressing	Up to 3 unique addresses, plus a universal / broadcast address
<b>Mechanical</b>	Dimensions	285 mm long by 72 mm max diameter; main housing diameter 60 mm
	Weight	~1 kg in air, ~0 kg in water
	Material	Acetal with Perspex window
<b>Power</b>	External Power	ROV unit 9 – 36 Vdc Subsea unit 6.5 - 32 Vdc
<b>Wake up</b>	Serial Wake Up	Optional on receipt of RS232 serial data for subsea unit On receipt of RS232 serial data for ROV unit
	Optical Wake Up	On receipt of optical interrogation
<b>Interface</b>	Electrical	RS232 levels
	Protocol	Any format – transparent link
	Baud rate	115200 baud

\* Measured by transmitting packets of 2000 bytes, sending a packet every 250 ms. An average of 100 transmissions was used to calculate the speed.

## Options

<b>AQUAmodem Op2L - complete package</b>	Pair of optical modems, including external battery pack, cables – Y cable, ROV cable, test cable
<b>AQUAmodem Op2L - ROV side package</b>	Single optical modem, including ROV cable, test cable
<b>AQUAmodem Op2L - Subsea package</b>	Single optical modem, including external battery pack, Y cable

Individual modems and accessories also available

## Compatible with



AQUAlogger 310TY

## Also available



AQUAmodem Op2

## Contact us

☎ +44 (0)1256 416010 (UK) ☎ +1-281-220-6035 (USA) ✉ [inquiry@aquatecgroup.com](mailto:inquiry@aquatecgroup.com) [www.aquatecgroup.com](http://www.aquatecgroup.com)

Aquatec House, Stroudley Road, Basingstoke, Hampshire, RG24 8FW, UK