

DATASHEET

AQUAmodem® Op1L

Lightweight optical modem



Optical modem system for short range subsea data transfer

IDEAL FOR USE BY DIVERS AND WITH SMALL ROVS

KEY FEATURES

- Short range interrogation, commanding and data download from subsea instruments
- Compatible with instruments with RS232 serial interfaces
- Depth rated to 500m



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TECHNICAL SPECIFICATION

Environmental	Operating Depth	500 m
	Temperature	Operating: -5°C to 40°C Storage: -40°C to 65°C
Telemetry	Light band	Cyan visible light
	Operating Range	Typically 1 m depending on environment
	Transmission type	Digitally coded telemetry with error detection
Mechanical	Dimensions	285 mm long by 72 mm max diameter; main housing diameter 60 mm
	Weight	Approximately 1 kg in air, 0 kg in water
	Material	Acetal with perspex window
Power	External Power	ROV unit 15V to 30V Subsea unit 9V to 30V
Wake Up	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
Interface	Electrical	RS232 levels
	Protocol	Any format - transparent link
	Bit rate	19200 baud
	Addressing	Up to 3 unique addresses, plus a universal / broadcast address



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