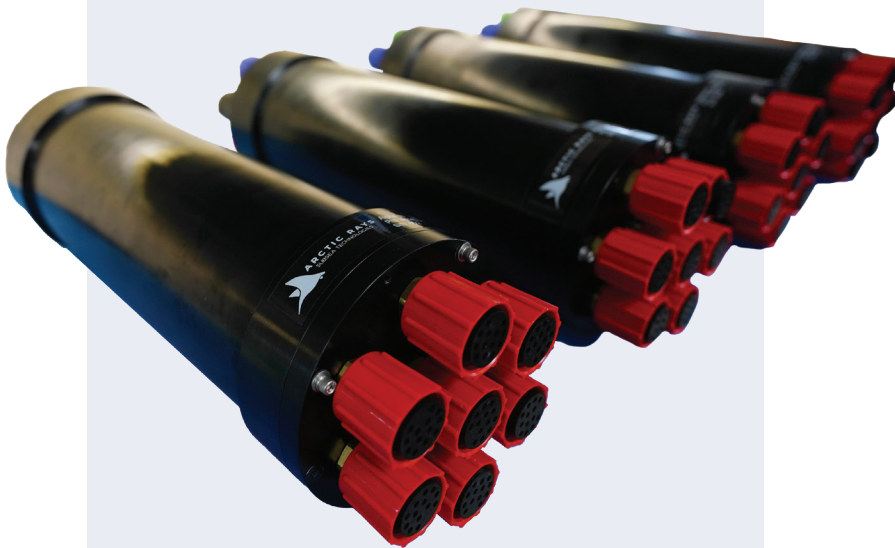


# Alpheus

TELEMETRY  
SERIES



## Fiber optic gigabit smart ethernet hub

### Features

- ▶ Provides switchable power, control and ground fault monitoring for up to 12 gigabit ethernet devices, including FHD 1080p30 cameras
- ▶ Minimal latency for near-real-time monitoring and control
- ▶ Individually fused ports, both poles
- ▶ Customizable for any application
- ▶ 3,000-meter depth rating
- ▶ Lightweight 6061-T6 aluminum AHC
- ▶ Detect/monitor leaks, ground faults, humidity, vacuum, temperature, current draw and fuse status
- ▶ Includes topside rackmount enclosure

Technical specifications on reverse.

Arctic Rays specializes in deep-sea lighting and imaging systems and other custom solutions specifically for use on AUVs, ROVs, manned submersibles and other offshore and underwater structures.

**Think deep.**

arcticrays.com • 1.321.610.4635



**ARCTIC RAYS**  
SUBSEA TECHNOLOGIES

# Alpheus

## Subsea Equipment Technical Specifications

PARAMETER	SPECIFICATION
Model Number	AR 403
<b>MECHANICAL</b>	
Weight	7.5 kg / 16.5 lb in air; 1.9 kg / 4.2 lb in seawater
Housing Materials	6061-T6 aluminum (AHC black)
<b>ELECTRICAL</b>	
Input Voltage	200–420 VDC, 20–60 VDC or 90–260 VAC
Max Power	300 w standard; 500 w optional
<b>INTERFACE</b>	
Connectors	Opto-Link single, Subconn DBH13
Fiber Optics	1x single-mode primary; 1x redundant optional
Optical Budget	>18 dBm / 40 km standard; >23 dBm / 80 km optional
User Ports	10 per bottle; 10/100/1000 base-T ethernet and switched 24 VDC @ 100 w per port
Expansion Port	1 per bottle; multiple bottles may be daisy-chained—consult factory for details
Control & Monitoring	Via ethernet: power switching, leak detection, ground fault monitoring, humidity detection, vacuum monitoring, temperature monitoring, current draw, fuse status
<b>ENVIRONMENTAL</b>	
Depth Rating	3,000 m (9,843 ft)
Temperatures	-10°C to 45°C operating; -10°C to 60°C storage

## Topside Equipment Technical Specifications

PARAMETER	SPECIFICATION
<b>MECHANICAL</b>	
Weight	1.8 kg / 4 lb in air
Form Factor	19" rackmount enclosure, 1U half-depth (8 in)
<b>ELECTRICAL</b>	
Input Voltage	90–260 VAC
Max Power	60 w
<b>INTERFACE</b>	
Connectors	1x ST fiber optic; 2x RJ-45 10/100/1000 base-T ethernet standard
<b>ENVIRONMENTAL</b>	
Temperatures	-10°C to 45°C operating; -10°C to 60°C storage

