

AML-1 RT

The AML-1 series of instruments is a highly configurable sonde designed for a wide range of data collection applications. The '1' designation indicates that one X2change sensor may be installed on the instrument at any time.

Common configurations include:

- Sound Velocity (SV)
- Sound Velocity & Temperature (SVT)
- Turbidity (Tu)
- Pressure / Depth (P)
- Conductivity & Temperature (CT)

The AML-1 **RT** will continuously stream data in real-time while in-situ. These instruments rely on external power for operation, facilitated via a waterproof connector. The AML-1 RT is commonly used to measure sound velocity next to a Multibeam or Sonar Transducer array, or for use on a broad range of moored applications, buoys, underwater observatories, and underwater vehicles. The AML-1 is compatible with any of the X2change series of sensors.



Real-Time



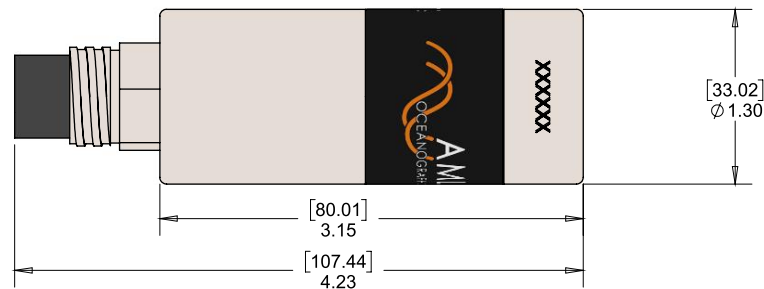
Depth Rating



Ports

Max. Depth	6000 m
Number of Ports	1
Communication	RS485 ¹ RS232
Input Voltage	8-26 VDC
Pressure Housing	Titanium
Dimensions	80 x 33 mm
Weight in Air	0.3 kg
Weight in Water	0.2 kg

AML-1 RT, No Sensors Installed²



Key Uses & Benefits:

- **Sound Velocity Beam Steering:** Measure sound velocity at MBES transducer, on a vessel hull, or on a subsea vehicle down to 6000 m
- **In-Situ Monitoring:** Simple and compact solution for in-situ measurements of environmental parameters
- **Real-time Data Streaming:** Collect and apply measurements in real-time
- **Increased Flexibility:** Custom configure a single instrument for multiple applications using AML's X2-Series of sensors

¹One way communication only.

²Dimensions in [mm] and Inches

AML-3

The AML-3 series is a highly configurable family of multiparameter sondes designed for a wide range of data collection applications. The '3' designation refers to the number of sensors that may be simultaneously installed on the instrument's endcap.

Common configurations include:

- Sound Velocity & Pressure (SVP)
- Sound Velocity, Turbidity & Pressure (SVP Tu)
- Sound Velocity, Conductivity & Temperature & Depth (SVCTD)
- Conductivity Temperature & Depth (CTD)

The **LGR** versions (ie. AML-3 LGR) are self-powered via a rechargeable internal battery and have a mechanical on/off switch on the bulkhead. The AML-3 LGR is most commonly used for vertical profiling of the water column with internal logging of sensor measurements and seamless data transfer via WiFi or USB on recovery.

The **RT** versions (ie. AML-3 RT) stream data while in-situ. External power and communication to these instruments are facilitated via a bulkhead connector. The AML-3 RT is commonly used in moored applications, buoys, underwater observatories, and ROVs and AUVs.

The **XC** version is a combination of both types of designations. Providing even more flexibility, it can internally record data and has the option of streaming data in real time. The AML-3 XC is versatile and can be used in a diverse range of applications.



WiFi



GPS



Rechargeable



USB



Depth Rating



Depth Rating



Max. Depth	500 m	6000 m
Number of Ports	3	3
Biofouling Protection	Street Lamp UV (Optional)	N/A
GPS	LGR: Yes RT: No XC: No	LGR: No RT: No XC: No
Communication	LGR: WiFi, USB-C RT: RS232 & USB-C XC: RS232 & USB-C	LGR: USB-C RT: RS232 & USB-C XC: RS232 & USB-C
Input Voltage	8-30 VDC	8-30 VDC
Pressure Housing	Acetal	Titanium
Protective Cage	Stainless Steel	Stainless Steel
Dimensions	Sm Cage: 343 x 76 mm Md Cage: 398 x 76 mm Lg Cage: 464 x 76 mm	Sm Cage: 343 x 76 mm Md Cage: 398 x 76 mm Lg Cage: 464 x 76 mm
Weight in Air	1.4 kg	2.5 kg
Weight in Water	0.7 kg	1.9 kg
Software	Sailfish	Sailfish

Key Benefits:

- **Three X2-Series Interchangeable Ports:** Ability to custom configure a single instrument for multiple applications
- **Magnetic On/Off Switch:** Configure now, power and deploy later (LGR & XC version only)
- **Integrated WiFi & GPS:** Transfer data wirelessly (LGR 500 m version only)
- **USB Connectivity:** Recharge battery and connect via USB
- **Integrated UV Biofouling:** Maintain consistent data quality & decrease maintenance intervals (Optional on RT & XC 500 m version only)
- **Sailfish Software:** Configure, download, process, and export profiles automatically

AML-6

The AML-6 series is a highly configurable family of multiparameter sondes designed for a wide range of data collection applications. The '6' designation refers to the number of X2-Series sensors that may be simultaneously installed on the instrument's endcap. Additional sensors may be connected externally, allowing up to eight sensors in total.

The **LGR** versions (ie. AML-6 LGR) are self-powered via a rechargeable internal battery and have a mechanical on/off switch on the bulkhead. The AML-6 LGR is most commonly used for vertical profiling of the water column with internal logging of sensor measurements and seamless data transfer via WiFi or USB on recovery.

The **RTS** versions (ie. AML-6 RTS) stream REAL TIME data. External power and communication to these instruments are facilitated via a bulkhead connector in lieu of a mechanical switch. The AML-6 RTS is commonly used in buoys, moored applications, underwater observatories, ROVS, and AUV's.

The **XC** version (i.e., AML-6 XC) is a combination of both types of designations. Providing even more flexibility, it can internally record data and has the option of streaming data in real time. The AML-6 XC is versatile and can be used in a diverse range of applications.



WiFi



GPS



Rechargeable



USB



Depth Rating



Depth Rating

*Reconfigurable at user convenience.



Max. Depth	500 m	6000 m
Number of Ports	6 (Option for up to 8)	6 (Option for up to 8)
Biofouling Protection	Street Lamp UV (Optional)	N/A
GPS	LGR: Yes RTS: No XC: Yes	LGR: No RTS: No XC: No
Communication	LGR: WiFi, USB-C RTS: RS232 XC: Wifi, RS232 & USB-C	LGR: USB-C RTS: RS232 XC: RS232 & USB-C
Input Voltage	8-30 VDC	8-30 VDC
Pressure Housing	Acetal	Steel Reinforced Acetal
Protective Cage	Stainless Steel (Optional: CuNi)	Stainless Steel (Optional: CuNi)
Dimensions	600 x 100 mm	600 x 100 mm
Weight in Air	4.0 kg	4.9 kg
Weight in Water	2.1 kg	2.8 kg
Software	Sailfish	Sailfish

Key Benefits:

- **Six X2-Series Interchangeable Ports:** Ability to custom configure a single instrument for multiple applications
- **Magnetic On/Off Switch:** Configure now, power and deploy later (LGR & XC version only)
- **Integrated WiFi & GPS:** Transfer data wirelessly (LGR & XC 500 m version only)
- **USB Connectivity:** Recharge battery and connect via USB (LGR & XC version only)
- **Integrated UV Biofouling:** Maintain consistent data quality & decrease maintenance intervals (Optional: RTS & XC 500 m version only)
- **Sailfish Software:** Configure, download, process, and export profiles automatically