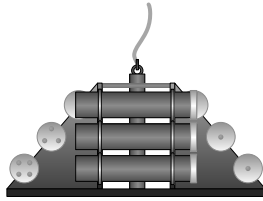
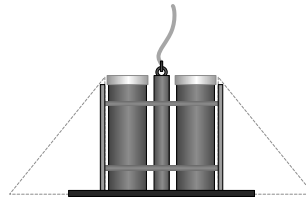


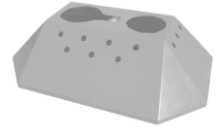
SUBSEA INSTRUMENT & BATTERY PACKS



e.g. Horizontal configuration

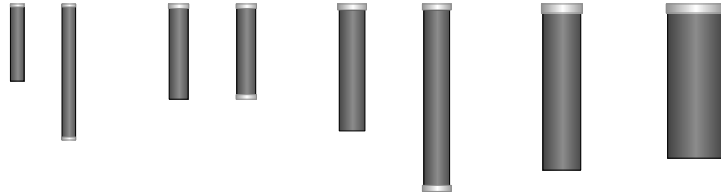


e.g. Vertical configuration



e.g. Trawl resistant, low drag enclosure

- Options:
- Embedded controller / processor
- Data storage
- Data and Power ports
- Singe / Double endcaps
- Subsea asset recovery beacon
- Subsea asset sonar locating tag
- Subsea acoustic release buoy
- Acoustic underwater data link
- Inductive underwater data link
- Safety pressure relief valve
- Mounts, brackets & fixings



SPECIFICATION	XS	S	M	L	XL
Enclosure Diameter / Length	90 mm / 0.50 – 0.65 m	125 mm / 0.50 – 1.00 m	160-180 mm / 0.5-1.20 m	250 mm / 0.50 – 1.00 m	360 mm / 0.50 – 1.00 m
Orientation	Horizontal or Vertical				
Power supply	5, 6, 9, 12 V			9, 12, 24, 30 V, HV options	
Charge Management	External Smart Charger			Optional built-in Smart Charger	
Active Asset Locator ¹	Xeos beacon - GPS and real time location reports via Iridium, Web, Android App, Email, SMS				
Passive Asset Locator ²	Sonarbell - Marking and location via vessel sonar system				

INSTRUMENT PACK						
Embedded Payload Processor	Micro 8-bit	Embedded ARM Cortex M 32-bit				
		Embedded ARM Cortex A8 1GHz, 512MB DDR3				
		Embedded ARM Cortex A15 2GHz multi-core, 2GB DDR3				
			Intel Dual/Quad Core, 8GB DDR3, PCIe/104, TeraByte data			
Payload Connectivity	Serial RS232 standard					
	Bluetooth wireless option					
	Ethernet option					
Data Storage	Wireless Wi-Fi 802.11 option					
	SD Memory Card (32 – 128 GB)					
	USB HDD (100 – 1,000 GB)					
	SATA HDD (Terabyte)					
Subsea to Surface data communication	Serial	Umbilical cable – Power & Serial RS232 / 422 / 485 Data				
	Ethernet	Umbilical cable – Power & Ethernet Data				
	Inductive link	Underwater Wireless Inductive Data Link Up to 1,000 m range				
	Underwater Acoustic link	Underwater Wireless Acoustic Data Link Up to 2,000 m range				
Battery & Capacity *	Lithium rechargeable	-	110 – 220 Wh	420 – 850 Wh each	650 – 1,200 Wh	2.5 – 4.0 kWh
	SLA rechargeable ³	-	-	360 – 480 Wh each	380 – 600 Wh	0.5 – 1.5 kWh
	Alkaline	325 Wh	430 Wh	1.0 – 2.5 kWh each	2.0 – 4.0 kWh	-
Weight in air *	Unladen	1.0 – 1.5 kg	1 – 2 kg	5.5 – 9 kg	10 – 14 kg	15 – 20 kg
	Loaded	3.0 – 5.0 kg	4 – 6 kg	14 – 20 kg	20 – 30 kg	40 – 100 kg
BATTERY PACK						
Battery & Capacity *	Lithium rechargeable	-	220 – 650 Wh	750 – 1,600 Wh	1.2 – 2.5 kWh	3.5 – 8.0 kWh
	SLA rechargeable ³	-	-	360 – 660 Wh	380 – 930 Wh	1.0 – 2.2 kWh
	Alkaline	325 - 650 Wh	750 – 1,250 Wh	2.0 – 4.5 kWh	4.0 – 8.0 kWh	-
Multiple Pack configuration	Yes					
Weight in air approx *	Loaded	4.5 – 6.5 kg	4.5 – 10 kg	14 – 40 kg	25 – 65 kg	50 – 100 kg

* Dependent on enclosure length selection, payload, configuration, battery capacity and type, optional peripherals.

1 Enables tracking and recovery if a subsea asset is detached and goes adrift
2 Enable underwater marking of an asset's position that can be identified via a regular vessel sonar system
3 Safety pressure relief valves are fitted as standard with Sealed Lead Acid (SLA) batteries