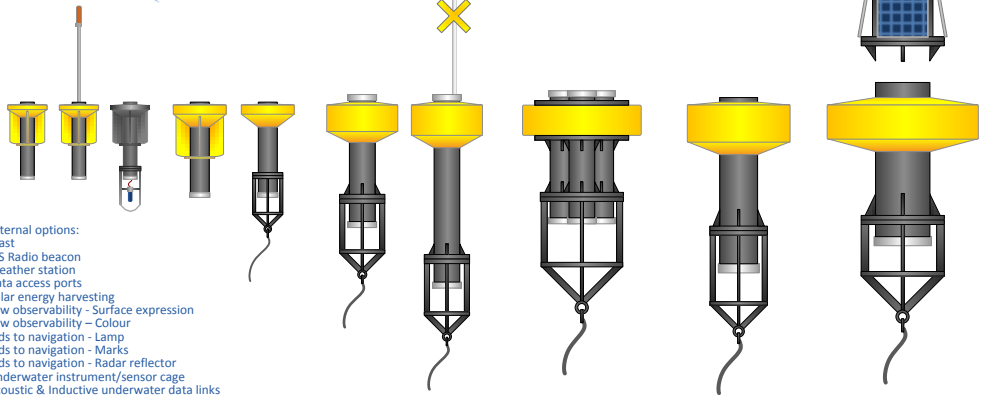


### SURFACE BUOY

# Fastwave



External options:  
 Mast  
 AIS Radio beacon  
 Weather station  
 Data access ports  
 Solar energy harvesting  
 Low observability - Surface expression  
 Low observability - Colour  
 Aids to navigation - Lamp  
 Aids to navigation - Marks  
 Aids to navigation - Radar reflector  
 Underwater instrument/sensor cage  
 Acoustic & Inductive underwater data links  
 Silent moorings

SPECIFICATION	XS	S	M	MM	L	XL
Hull Diameter / Length (approx)	90 mm / 0.50 – 0.65 m	125 mm / 0.50 – 1.00 m	160 - 180 mm / 0.80 – 1.20 m		250 mm / 0.50 – 1.00 m	360 mm / 0.50 – 1.00 m
Float Diameter * (approx)	260 mm	350 mm	450 mm	800 mm	700 mm	1.00 m
Height min surface expression	< 50 mm	< 10 cm	< 10 cm	< 25 cm	< 20 cm	< 50 cm
Buoy configuration	Drifter Buoy / Moored Buoy			Moored Buoy typical		
Battery & Capacity *	Lithium rechargeable	-	110 – 220 Wh	420 – 850 Wh each		650 – 1,200 Wh
	SLA rechargeable <sup>1</sup>	-	-	360 – 480 Wh each		360 – 600 Wh
	Alkaline	325 Wh	430 Wh	1.0 – 2.5 kWh each		2.0 – 4.0 kWh
Power supply	5, 6, 9, 12 V		12, 24 V (HV options)		12, 24, 30 V (HV options)	
Charge Management	External		Optional built-in Smart Charger			
Satellite data communication	Iridium SBD - Real-time data via Web, Android App, Email, SMS and more					
	Iridium RUDICS and CSD - Real-time data and File Transfer via Web, Android App, Email and more					
GPS capability	Yes - Location reporting via Iridium, AIS, Web, Android App, Email, SMS					
AIS Beacon (VHF)	Yes - Location tracking via standard AIS network and vessel Chart Plotters					
Embedded Payload Processor	Micro 8/16-bit					
	Embedded ARM Cortex M 32-bit					
	Embedded ARM Cortex A8 1GHz, 512MB DDR3					
	Embedded ARM Cortex A15 2GHz multi-core, 2GB DDR3					
Payload Connectivity	Intel Dual/Quad Core, 8GB DDR3, PCIe/104, TeraByte Data					
	Serial RS232 standard					
	Bluetooth wireless option					
	Ethernet LAN connectivity					
Subsea to Surface data communication	Wireless Wi-Fi 802.11 option					
	Umbilical cable – Power & Serial RS232 / 422 / 485 Data					
	Umbilical cable – Power & Ethernet Data					
	Underwater Wireless Inductive Data Link Up to 1,000 m range					
Silent acoustic mooring	Underwater Wireless Acoustic Data Link Up to 2,000 m range					
	Low-noise mooring option for enhanced underwater acoustic performance					
Weight in air * approx	Unladen	1.5 – 3.0 kg	4 – 8 kg	10 – 15 kg	20 – 45 kg	12 – 20 kg
	Loaded	5.0 – 6.5 kg	6 – 12 kg	15 – 50 kg	50 – 150 kg	25 – 50 kg

\* Dependent on hull length selection, payload weight, configuration, battery capacity and type, optional peripherals.  
 1 Safety pressure relief valves are fitted as standard with Sealed Lead Acid (SLA) batteries