

Floating Platform Selection Guide



Product Name	Sonde Spar	Harbor Buoy	Inshore Buoy	PISCES	Bay Buoy	Coastal Buoy
Legacy Name ¹	EMM25	EMM68	EMM150	EMM350	EMM700	EMM2.0
Recommended Seastate ²						
System Weight kg (lbs)	22.7 (50)	50 (110)	68.0 (150)	159 (350)	186 (410)	544 (1200)
Buoyancy kg (lbs)	27.2 (60)	91.6 (202)	150 (330)	363 (800)	635 (1400)	1656 (3650)
Net Buoyancy kg (lbs)	2.27 (5)	41.7 (92)	50.8 (112)	204 (450)	454 (1000)	1111 (2450)
Min Operation Depth m (ft)	1.5 (4.9)	2 (6.6)	2.5 (8.2)	0.75 (2.5)	4 (13.1)	5 (16.4)
Max Operation Depth m (ft)	25 (82)	25 (82)	25 (82)	25 (82)	50 (164)	100 (328)
Max Current Speed m/s (ft/s)	1.00 (3.3)	1.00 (3.3)	1.00 (3.3)	6 (19.7)	2.5 (8.2)	3 (9.8)
Max Current Speed (knots)	1.94	1.94	1.94	11.6	4.86	5.83
Max Additional Payload kg (lbs)	none	5 (11)	50 (110)	50 (110)	100 (220)	250 (551)
Real-time Data		X	X	X	X	X
Met Capable			X		X	X
Up-looking ADP					X	X
Down-looking ADP			X			X
Common Carrier Shipping	X					
Moorings and/or tackle	Light	Light	Light	Light	Medium	Heavy

¹Alternative name used in some YSI literature.

²Seastate has been estimated by YSI field application engineers, using the Modern Beaufort Scale adapted from the United Kingdom Met Office (<https://www.metoffice.gov.uk/weather/guides/coast-and-sea/beaufort-scale>, accessed 9 April 2020). The seastate recommendation regards where the platform would function within specifications. Light blue means suitable for small to mid-sized lakes, harbors and low-wave bays with no more than a moderate breeze and 1.5 m wave heights; medium blue means suitable for low-wave but high-flow bodies, like inlets and rivers, with no more than a moderate breeze; dark blue means suitable for strong breezes that do not exceed 11 m/s and mid-sized lakes, harbors, or bays; black means suitable for Great Lakes, coastal and open ocean environments that may experience gale-force winds. Outcomes will vary according to other factors such as wave characteristic, duration of exposure, payload, and quality of moorings and tackle.

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