

Floating Platform Selection Guide



Product images displayed above are not to scale.

Product Name	Sonde Spar	Harbor Buoy	PISCES	Inshore Buoy	Bay Buoy	Metocean Buoy	Coastal Buoy
Legacy Name ¹	EMM25	EMM68	EMM350	DB600	EMM700	DB1750	EMM2.0
Recommended Seastate ²							
System Weight	20 kg (44 lb)	50 kg (110 lb)	160 kg (353 lb)	21 kg (46 lb)	185 kg (408 lb)	454 kg (1000 lb)	544 kg (1200 lb)
Buoyancy	32 kg (71 lb)	100 kg (220 lb)	365 kg (805 lb)	85 kg (187 lb)	650 kg (1433 lb)	549 kg (1210 lb)	1656 kg (3650 lb)
Net Buoyancy ³	2.27 kg (5 lb)	41.7 kg (92 lb)	204 kg (450 lb)	65 kg (143 lb)	454 kg (1000 lb)	300 kg (661 lb)	1111 kg (2450 lb)
Min Operation Depth	1.5 m (4.9 ft)	2 m (6.6 ft)	0.75 m (2.5 ft)	1.3 m (4.3 ft)	4 m (13.1 ft)	5 m (16.4 ft)	5 m (16.4 ft)
Max Operation Depth	25 m (82 ft)	25 m (82 ft)	25 m (82 ft)	Codependent	50 m (164 ft)	100 m (328 ft)	100 m (328 ft)
Max Current Speed	1.00 m/s 1.94 knots	1.00 m/s 1.94 knots	6 m/s 11.6 knots	Codependent	2.5 m/s 4.86 knots	3.1 m/s 6 knots	3 m/s 5.83 knots
Max Additional Payload	None	5 kg (11 lb)	50 kg (110 lb)	15 kg (33 lb)	100 kg (220 lb)	200 kg (441 lb)	250 kg (551 lb)
Real-time Data		X	X	X	X	X	X
MET Capable		X	X		X	X	X
Down-looking ADP		Single-Point	X	Single-Point	X	X	X
Common Carrier Shipping	X						
Moorings and/or Tackle	Light	Light	Light	Light	Medium	Heavy	Heavy

¹ Alternative name used in some YSI literature.

² Seastate 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 gray (●) 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; light 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.

³ Net Buoyancy will vary based on the equipment installed and the mooring's final weight, which is depth and type dependent.

YSI, a Xylem brand
1725 Brannum Lane
Yellow Springs, OH 45387

+1.937.767.7241
info@ysi.com
YSI.com



Who's
Minding
the Planet?®



YSI.com/Buoys



a xylem brand