

SP2.5D

The SP2.5D is a small, waterproof six-axis sensor that is well-suited for applications such as underwater models and tow tanks. The body of the load cell is manufactured from heat treated 17-4 PH stainless steel, has mounting surfaces equipped with threaded holes and stainless steel waterproof connector.



SP2.5D Specifications	1000	2000
Fz Capacity, lb (N)	1000 (4450)	2000 (8900)
Fx, Fy Capacity, lb (N)	500 (2200)	1000 (4450)
Mz Capacity, in-lb (Nm)	500 (2200)	1000 (4450)
Mx, My Capacity, in-lb (Nm)	1000 (4450)	2000 (8900)
Fz Sensitivity, $\mu\text{V}/[\text{V}^*\text{lb}]$, $\mu\text{V}/[\text{V}^*\text{N}]$	0.75 (0.17)	.37 (.085)
Fx, Fy Sensitivity, $\mu\text{V}/[\text{V}^*\text{lb}]$, $\mu\text{V}/[\text{V}^*\text{N}]$	3 (0.67)	1.5 (.34)
Mz Sensitivity, $\mu\text{V}/[\text{V}^*\text{in-lb}]$, $\mu\text{V}/[\text{V}^*\text{Nm}]$	3 (0.67)	1.5 (.34)
Mx, My Sensitivity, $\mu\text{V}/[\text{V}^*\text{in-lb}]$, $\mu\text{V}/[\text{V}^*\text{Nm}]$	4 (35.4)	2 (.18)
Fz Stiffness, $\times 10^5$ lb/in ($\times 10^7$ N/m)	18	36
Horizontal stiffness, $\times 10^5$ lb/in ($\times 10^7$ N/m) at top surface	1.1 (1.9)	2.2 (3.8)
Mz Stiffness, $\times 10^4$ in-lb/radian ($\times 10^4$ Nm/radian)	20 (2.2)	40 (4.5)
Weight, lb (kg)	1.8 (.8)	1.8 (.8)
Lowest Resonant Frequency, Hz	1300	1800

