



# AD2.5D-1000 SPECIFICATIONS

The AD2.5D is a compact six-axis force transducer with a side connector and threaded attachment points on its top and bottom surfaces. The body of the transducer is manufactured from high strength aluminum with an anodized finish. A waterproof version the [SPC2.5D](#) or [SPI2.5D](#) is available for use in tow tanks, ocean engineering, and other underwater applications.



Units:  Capacity:

<b>Dimensions(LxDia.)</b>	63.5 x 63.5 mm		
<b>Weight</b>	0.455 Kg.	<b>Sensing elements</b>	Strain gage bridge
<b>Channels</b>	Fx, Fy, Fz, Mx, My, Mz	<b>Amplifier</b>	Required
<b>Body Material</b>	Aluminum	<b>Analog outputs</b>	6 Channels
<b>Temperature range</b>	-17.78 to 51.67°C	<b>Digital outputs</b>	None
<b>Excitation</b>	10V maximum	<b>Crosstalk</b>	< 2% on all channels
<b>Fx, Fy, Fz hysteresis</b>	± 0.2% full scale output	<b>Fx, Fy, Fz non-linearity</b>	± 0.2% full scale output

Channel	Fx	Fy	Fz	Units	Mx	My	Mz	Units
Capacity	2223	2223	4446	N	113	113	56	N-m
Sensitivity	0.54	0.54	0.135	µv/v-N	26.58	26.58	21.26	µv/v-N-m
Natural frequency	-	-	-	Hz	1000	-	-	Hz
Stiffness (X 105)	175	175	2979	N/m	-	-	0.226	N-m/rad

Resolution *To determine the resolution of your system, please use our [Output Calculator](#).*

Notes: The listed natural frequency is the lowest natural frequency for the force sensor and will dominate.

Published specifications subject to change without notice.

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