


www.AMTI.biz | sales@amtimail.com

AD2.5D-100 SPECIFICATIONS

The AD2.5D is a compact and customizable six-axis force transducer with a side connector and threaded inserts 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:

Dimensions(LxDia.)	2.5 x 2.5 in		
Weight	1 lb.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required
Body Material	Aluminum	Analog outputs	6 Channels
Temperature range	0 to 125°F	Digital outputs	None
Excitation	10V maximum	Crosstalk	< 2% on all channels
Fx, Fy, Fz hysteresis	± 0.2% full scale output	Fx, Fy, Fz non-linearity	± 0.2% full scale output

Channel	Fx	Fy	Fz	Units	Mx	My	Mz	Units
Capacity	50	50	100	lb	100	100	50	in-lb
Sensitivity	24	24	6	μv/v-lb	30	30	24	μv/v-in-lb
Natural frequency	-	-	-	Hz	300	-	-	Hz
Stiffness (X 105)	0.1	0.1	1.7	lb/in	-	-	0.2	in-lb/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.

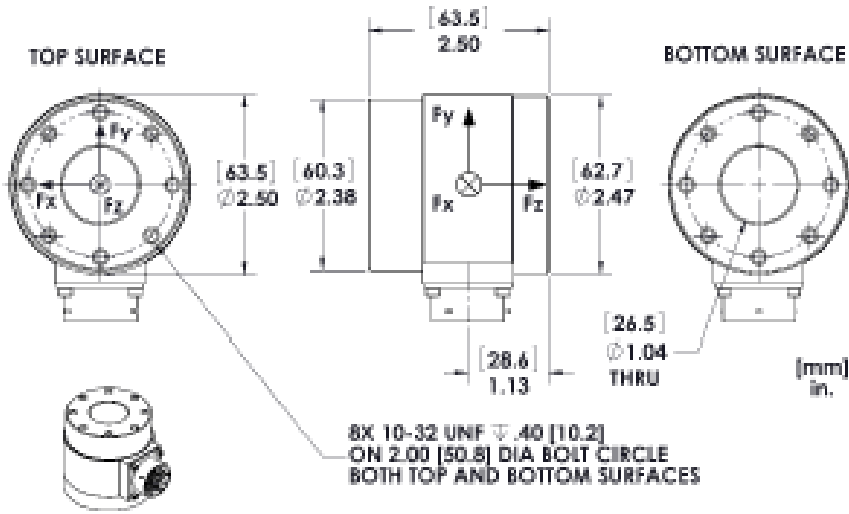
Last modified: 2014-11-1



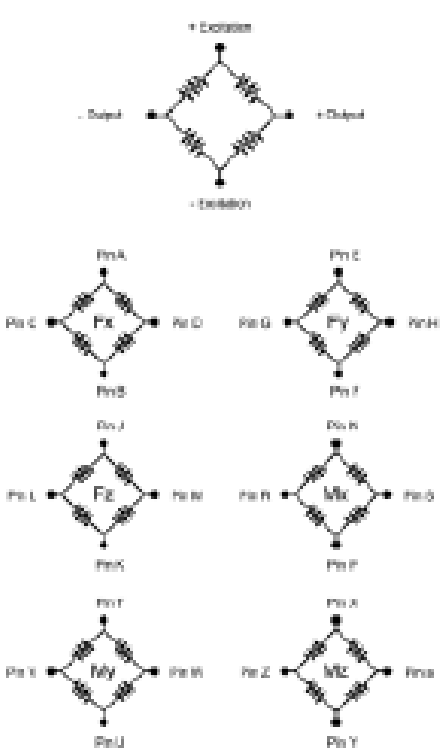
Presented by: Absolute Gauge Technologies
sales@absolutegauge.com; www.absolutegauge.com,
Toronto: 416 754 3168, Montreal: 514 695 5147, Toll Free: 1 888 754 7008

TECHNICAL DRAWINGS

Footprint Drawing



Electrical Drawing



Bridge F_z = 716 ohms
Bridges F_x , F_y , M_x , M_y , M_z = 350 ohms
Connector Type:
Souriau 851-02E-10-26P50-44

© Advanced Mechanical Technology, Inc.
176 Waltham Street, Watertown, MA 02472-4800 USA
1-617-926-6700



Presented by: Absolute Gauge Technologies
sales@absolutegauge.com; www.absolutegauge.com,
Toronto: 416 754 3168, Montreal: 514 695 5147, Toll Free: 1 888 754 7008