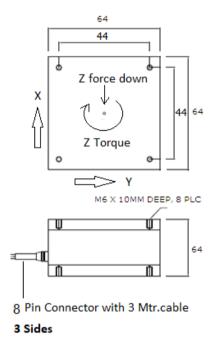
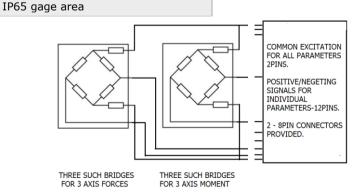
Description

MAT-200-FXYZMZ is quad axis for force (3) and moment (3) is and is designed for measuring the force in material testing, robotics, contact mechanics & Tribology, wind tunnel research. It is used to measure the three orthogonal components of a force and moment acting in an arbitrary direction. It exhibits high sensitivity with low cross talk & excellent repeatability. This is strain gage based sensor with full temperature compensation over 10 to 50°C. This has suitable top and bottom surfaces to mount required mounting hardware.

Features ❖Tri axis force from 0-50N in X, Y, Z axis. ❖Tri axis moment from 0-2.5NM in X, Y, Z axis Other ranges offered on request **Applications** ❖Lathe Operation ❖Cutting Force Dynamometer Grinding & Abrasive Wheel ❖Product & Material Testing Automotive Research Research ❖Tool Wear research Robotics ❖Tribology - Surface Mechanics ❖Product Testina Medical, Rehabilitation, Sports ❖Wind Tunnel Balance Study **Performance Specification** Standard Capacity 0-50N, 0-2.5NM 0-100N, 0-5NM 0-200N, 0-10NM 0-400N, 0-20NM 0-1000N, 0-50NM Excitation Voltage 10 VDC- Maximum 15 VDC Nominal Output 0.50 to 1.0 mV/V Non - Linearity < ±0.5% FSO (Full Scale Output) **Hysteresis** < ±0.5% FSO Non-Repeatability < ±0.2% FSO Creep (30 minutes) < ±0.05% FSO ±5.0% FSO Zero Balance Bridge Resistance $350/700 \pm 20 \text{ Ohms}$ Insulation Resistance (50 VDC) > 2000 Mega Ohms Cable Length (6+2 Core) 3 Meters Safe Overload of Rated Capacity 150% 200% Ultimate Overload of Rated Capacity 10-50°C Temp. Compensated Range Operating Temperature $10 - 60^{\circ}$ C Temperature Effect on Output < 0.05% FSO/ °C < 0.05% FSO/ °C Temperature Effect on Zero Finish & Construction Sensing body-Aluminum Alloy/Tool Steel - electro less nickel plated **Environmental Protection Class**







Specification are subject to change.
All dimensions are in mm.



Made in INDIA by:

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