

Bending Beam Load Cell

Precision Low-Capacity Force Measurement



Product Overview

JRAGRAU Bending Beam Load Cells are strain-gauge based transducers designed for high-accuracy force and weight measurement in low-capacity applications. Their compact bending beam construction ensures excellent repeatability, stable long-term performance, and reliable operation in industrial and laboratory environments.

Key Features

- High accuracy and repeatability
- Rugged precision-machined construction
- Optimized for low-capacity force measurement
- Import substitute – Made in India
- Stable output under continuous operation

Technical Specifications

Capacity Range	300 g to 2 kgf
Rated Output	2 mV/V $\pm 1\%$
Non-Linearity	0.02 % F.S
Repeatability	0.02 % F.S
Hysteresis	0.02 % F.S
Creep	0.02 % F.S / 30 min
Zero Balance	± 0.5 % F.S
Zero Temp. Coefficient	± 0.002 % F.S / $^{\circ}\text{C}$
Rated Output Temp. Coefficient	± 0.002 % F.S / $^{\circ}\text{C}$
Temp. Compensation Range	-10 $^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$
Safe Temperature Range	-30 $^{\circ}\text{C}$ to +80 $^{\circ}\text{C}$
Input Resistance	380 Ω ± 10 Ω
Output Resistance	350 Ω ± 1 Ω
Insulation Resistance	> 5000 M Ω
Recommended Excitation	5–12 V DC/AC
Maximum Excitation	20 V DC
Safe Overload	150 % F.S
Ultimate Overload	300 % F.S
Cable	4-core silver-plated shielded, 0.5 m

Applications

- Testing machines
- Food, paper and textile industries
- Automotive industries
- Civil engineering applications
- Steel and cement plants