

MINIATURE LOAD CELL

PRODUCT DATASHEET



PRECISION FORCE MEASUREMENT IN COMPACT APPLICATIONS

The Jragrau Miniature Load Cell is designed for accurate force measurement in space-constrained applications. Built with strain gauge technology and precision-machined construction, it delivers stable and repeatable performance in laboratory, industrial, and testing environments.

KEY FEATURES

- Compact and rugged construction for confined installations
- Excellent repeatability for consistent measurements

APPLICATIONS

- Material testing machines
- Automotive and component testing

TECHNICAL SPECIFICATIONS

PARAMETER	METRIC (SI)
Capacity Range	300 gram to 2 kgf
Sensitivity	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	\pm 0.5 % F.S.
Temperature Compensation Range	-10 °C to +60 °C
Safe Temperature Range	-30 °C to +80 °C
Input Resistance	380 Ω \pm 10 Ω
Output Resistance	350 Ω \pm 1 Ω
Insulation Resistance	> 5000 M Ω

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PHYSICAL & BUILD

- Miniature form factor for low-profile integration
- Precision-machined metal body
- Shielded cable for noise immunity

ELECTRICAL CHARACTERISTICS

LABEL	VALUE
Input Resistance	380 Ω \pm 10 Ω
Calibration	Factory calibrated, traceable standards
Cable	4-core silver plated shielded, 0.5 m