COMPRESSION LOAD CELL

PRODUCT DATASHEET

HIGH CAPACITY COMPRESSION FORCE MEASUREMENT

The Jragrau Compression Load Cell is engineered for accurate measurement of high compressive forces in demanding industrial environments. Designed with a robust strain gauge sensing element and heavy-duty construction, it delivers stable and repeatable performance for testing, calibration, and structural load monitoring applications.

KEY FEATURES

- High accuracy strain gauge based sensing
- Rugged construction for heavy load applications
- Stable performance under continuous compression loading

APPLICATIONS

- Material and compression testing machines
- Hydraulic press force measurement
- Structural and load calibration systems

TECHNICAL SPECIFICATIONS

PARAMETER	METRIC (SI)
Capacity Range	1, 2, 5, 10, 20, 30, 50, 100, 1000, 2000 kN
Sensitivity	2 mV/V ±1%
Non-Linearity	0.03 % F.S.
Repeatability	0.03 % F.S.
Hysteresis	0.02 % F.S.
Creep	0.03 % F.S. (30 min)
Zero Balance	±1 % F.S.

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PHYSICAL & BUILD

- Designed for high-load compression testing
- Robust mechanical construction
- Suitable for harsh industrial environments

Insulation Resistance: > 7000 MΩ

Safe Overload: 150 % F.S.

Ultimate Overload: 300 % F.S.

ELECTRICAL CHARACTERISTICS

VALUE	LABEL
700 Ω ± 3.5 Ω	Input Resistance
700 Ω ± 5 Ω	Output Resistance
5–24 V (DC/AC)	Recommended Supply Voltage
30 V DC	Maximum Supply Voltage

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