

Compression Load Cell

High-Capacity Compression Force Measurement



Product Overview

JRAGRAU Compression Load Cells are strain-gauge based force transducers designed for accurate measurement of high compression loads in industrial testing, structural analysis, and calibration applications. Their rugged cylindrical construction ensures reliable performance, excellent repeatability, and long-term stability.

Key Features

- Designed for high-capacity compression measurement
- Robust alloy / stainless steel construction
- Excellent repeatability and long-term stability
- Suitable for static and dynamic loading
- Industrial-grade reliability

Technical Specifications

Capacity Range	1, 2, 5, 10, 20, 30, 50, 100, 1000, 2000 kN
Sensitivity	2 mV/V \pm 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	\pm 1 % F.S.
Zero Temp. Coefficient	\pm 0.05 % F.S. / °C
Rated Output Temp. Coefficient	\pm 0.05 % F.S. / °C
Temp. Compensation Range	-10 °C to +60 °C
Safe Temperature Range	-30 °C to +80 °C
Input Resistance	700 Ω \pm 3.5 Ω
Output Resistance	700 Ω \pm 5 Ω
Insulation Resistance	> 7000 M Ω
Recommended Supply Voltage	5–24 V DC/AC
Maximum Supply Voltage	30 V DC
Safe Overload	150 % F.S.
Ultimate Overload	300 % F.S.
Cable	4-core silver-plated shielded, 5 m

Applications

- Material testing machines
- Structural load testing
- Calibration laboratories
- Heavy industrial presses