

## Series 2500 & 2900 **PRECISION LOAD CELLS** for force, tension, weight measurement and control applications

- ✓ 0.05% Nonlinearity
- ✓ 0.02% Hysteresis
- ✓ 0.0008%/°F T.C.
- ✓ 0.1% Symmetry



Universal Ranges: 50 to 200,000 lb. (222 to 890,000 newton)  
Compression Only Ranges: 1,000 to 200,000 lb. (4,448 to 890,000 newton)

**S. HIMMELSTEIN AND COMPANY LOAD CELLS** are sealed, low profile sensors suitable for precision force and weight measurements. The transducing element is strain gaged and compensated to eliminate temperature induced zero and span errors. Element design provides exceptional tolerance of extraneous loads assuring accuracy and long life.

When de-rated to provide 300% overload capacity, their accuracy is equal to or greater than general purpose units with only 150% overload capacity. These load cells are ideally suited for cradled dynamometers, bearing and sleeve press force tests, draw bar measurement and virtually any laboratory or production force/weight measurement.

### General Specifications

Bridge Impedance (Ohms):	350 ± 1%
Zero Balance (% of range):	± 1%
Output and Dimensions:	see overleaf
Maximum Excitation Voltage (ac or dc)	
2500 Series:	20
2900 Series:	15
Nonlinearity (% of range, end point method):	0.05%
Hysteresis (% of range):	0.02 below 5,000 lb. range, 0.04 for 5,000 lb. range and higher
Non-repeatability (% of range):	0.02
Tension and Compression Symmetry:	0.1% of full scale range (Universal Models only)
Overload Capacity:	1.5 times full scale range
Temperature Effects (°F):	from +15 to +115
Operating Range (°F):	-65 to +200
Zero Drift (% of range per °F):	0.0008
Span Drift (% of reading per °F):	0.0008

### Base and Compression Overload Options

Mounting bases (see overleaf) are optional for all models. Without them, the cells must be mounted to a surface ground extremely flat. With an attached mounting base, installation isn't critical and, tension loading is simplified. The 5X (times) compression overload option requires an installed mounting base.

### Complete Systems

We can furnish a complete force or weight measurement system including sensors, cabling, readout and/or controller and NIST traceable calibration. Himmelstein readouts feature superb strain gage signal conditioners with exceptional noise immunity, engineering unit displays, digital computation, tare, hold, max, min, digital limits, computer ports and much more. Contact the factory for details.

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