

Load Cell

FEATURES

- Capacity range: 20000 to 100000 lb (9072 to 45360 kg)
- Tension service
- Operational: -30° to +175°F
- Low deflection
- Environmentally sealed
- FM and CSA approved

APPLICATIONS

- Tensile testing
- Crane scales
- Grain silos
- Suspended vessels

DESCRIPTION

T2P1 load cells, developed by BLH Nobel, are designed for various types of weighing and force measurement. T2P1 load cell construction uses all the advantages of SR-4[®] strain gages.

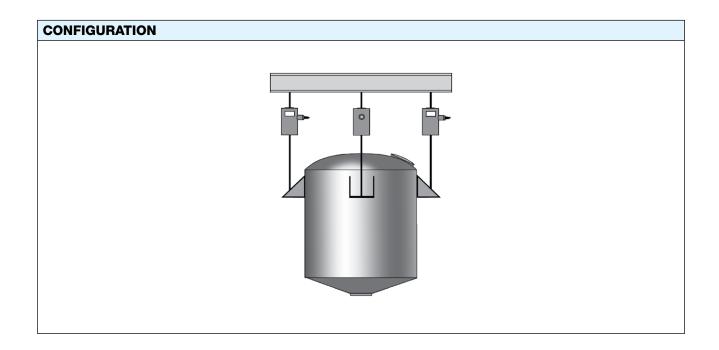
T2P1 Load Cells are fabricated with high strength 'column type' elements that provide output signals of 2mV/V at rated capacity. Each cell is designed for minimum deflection and maximum safe overload during periods of full capacity tension.

Double diaphragm fabrication and gage linearizing combine to offer precision performance and long term

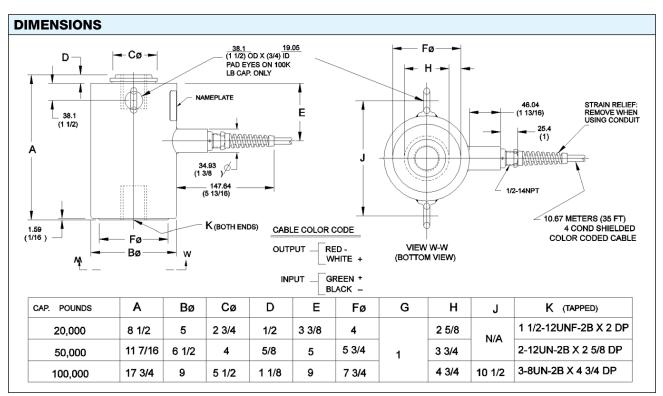




reliability. Low deflection and superior sealing guarantee trouble-free operation. Relatively low mass and small deflection under load, produce excellent frequency response. Overall, T2P1 cells perform superbly in many environments where other transducers cannot.



Load Cell



| SPECIFICATIONS | | | | | |
|---------------------|--|------------------------|---------------|----------|--|
| PARAMETER | VALUE | PARAMETER | | | |
| PERFORMANCE | | TEMPERATURE | | | |
| Capacities | 20K, 50K, and 100K | Safe range | | | |
| Rated output (RO) | 2.0 hv/v ±0.10% | Compensated range | | 15–115°F | |
| Combined error | 2.011/1/ ±0.1070 | Effect on zero balance | | ±0 | |
| (Hys.& Lin.) | ±0.03% F.S. | Effect on rated output | ±0.0008%/°F | | |
| Repeatability-%RO | 0.02 F.S. | ADVERSE LOAD RATINGS | 3 | | |
| Creep—%RO (20 min.) | ±0.02% F.S. | Safe overload | | | |
| ELECTRICAL | | Ultimate overload | 300% capacity | | |
| Recommended excita- | 10 VAC or VDC | MECHANICAL DATA | | 20K lb | |
| tion | | Weight (lb) | | 25 | |
| Maximum excitation | 20 VAC or VDC | Deflection (in) | I | 0.0075 | |
| Zero balance –%RO | 0.02% F.S. | Deflection (mm) | ĺ | 0.191 | |
| Input resistance | 350 ±3.5 Ω Nat. Freq. (Hz) @ Eff. Wt. 3500 | 3500/2 | | | |
| Output resistance | 350 ±3.5 Ω | (lb) | | 3300/2 | |
| Number of bridges | 2 | | | | |
| | | | | | |

BLH Nobel is continually seeking to improve product quality and performance. Specifications may change accordingly. Many performance specifications are proven on a statistical sample basis.

35 ft

Cable length



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