

# 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<sup>®</sup> strain gages.

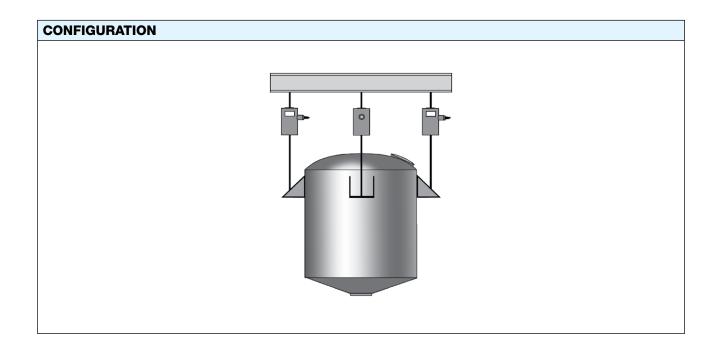
T2P1 Load Cells are fabricated with high strength 'column type' elements that provide output signals of 2mV/V at rated capacity. Each cell is designed for minimum deflection and maximum safe overload during periods of full capacity tension.

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

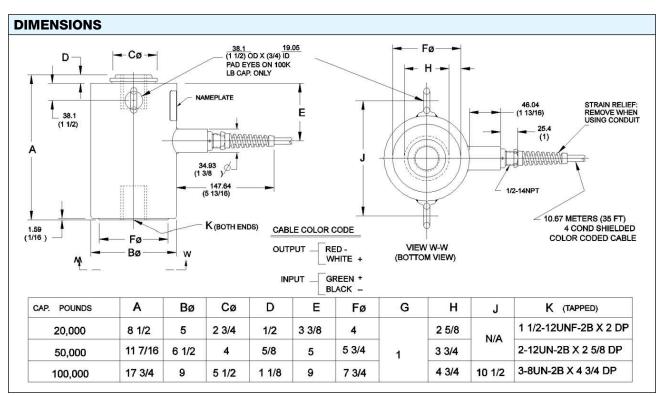




reliability. Low deflection and superior sealing guarantee trouble-free operation. Relatively low mass and small deflection under load, produce excellent frequency response. Overall, T2P1 cells perform superbly in many environments where other transducers cannot.



Load Cell



PECIFICATIONS						
PARAMETER	VALUE	PARAMETER				
PERFORMANCE		TEMPERATURE				
Capacities	20K, 50K, and 100K	Safe range		15–115°F		
Rated output (RO)	2.0 hv/v ±0.10%	Compensated range		15–115°F		
,	2.0110/V ±0.10%	Effect on zero balance		±0		
Combined error (Hys.& Lin.)	±0.03% F.S.	Effect on rated output		±0.0008%/°F		
Repeatability-%RO	0.02 F.S.	ADVERSE LOAD RATINGS	;			
Creep—%RO (20 min.)	±0.02% F.S.	Safe overload		150%		
ELECTRICAL		Ultimate overload		3		
Recommended excita-	10 VAC or VDC	MECHANICAL DATA		20K lb		
tion		Weight (lb)		25		
Maximum excitation	20 VAC or VDC	Deflection (in)		0.0075		
Zero balance –%RO	0.02% F.S.	Deflection (mm)		0.191		
Input resistance	350 ±3.5 Ω	Nat. Freq. (Hz) @ Eff. Wt.	3500/2			
Output resistance	<b>350 ±3.5</b> Ω	(lb)		3500/2		
Number of bridges	2					
Cable length	35 ft					

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.



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