



STAINLESS STEEL ROCKER COLUMN LOAD CELL



Thurman's patented stainless steel rocker column load cell, used in many Thurman truck scales, provides unmatched performance, accuracy and reliability.

HERMETICALLY SEALED LOAD CELLS

Hermetic sealing is critical to load cell performance, making the cell impervious to water and other damaging elements. Hermetic sealing is defined as a true, welded seal in all areas of the load cell. After the sealing process, the gauging cavity is held under a vacuum and leak tested. Once no leaks are found, the chamber is filled with nitrogen gas. These processes are critical to the long life of the load cell. Thurman's rocker column load cell is NEMA 6P (IP69K) rated, allowing the load cell to withstand pressure directed spray or be submerged for extended periods of time. The well-protected load cell means extended life and reduced downtime.

DURABLE STAINLESS STEEL

The element material used in these load cells is 17-4 PH stainless steel. The body and the cable entry to the load cell are type 316 stainless steel. The body is passivated and electrochemically polished to bring more chromium to the surface — achieving level of corrosion protection that exceeds anything previously offered in stainless steel truck scale load cells. The load cell design virtually eliminates any concerns regarding corrosion and its potentially adverse effects.

A TRUE ROCKER CELL

A true rocker column load cell, Thurman's patented stainless steel load cells are able to eliminate errors often found in other rocker cells. By precisely placing the gauges on the neutral axis of the load element, errors normally associated with side loads and tilting are eliminated. Using a patented technology to precisely calibrate each cell during production, you are ensured that all load cells are matched in performance as well as accuracy. If a load cell is replaced, calibration adjustments are unnecessary. No other manufacturer can provide this type of load cell technology.

CABLE PROTECTION

Thurman's rocker column load cell cables, for truck and rail scales, come standard with braided, stainless steel armor. This protective metal jacket runs along the entire length of the load cell cable. It protects the cable from chafing and other abrasions when it is run through conduits. It is also a trusted deterrent against EFI/EMI interference and gnawing rodents.

IMPORTANT FEATURES

- Capacities (lbs): 15k, 30k, 50k, 66k, 88k, 100k, 110k
- High accuracy
- Total stainless steel construction
- Complete hermetic sealing
- Protection IP69K
- High input resistance: 1100 Ω
- Calibration in mV/V/ Ω
- Complete range of loading hardware
- Factory Mutual approved
- NTEP approved
- Keyed connection prevents twisting
- Zirk fittings for easy maintenance
- Built-in anti-rotation

At A Glance™

Models and specifications subject to change without notice.
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Call toll-free for the Thurman representative nearest you:

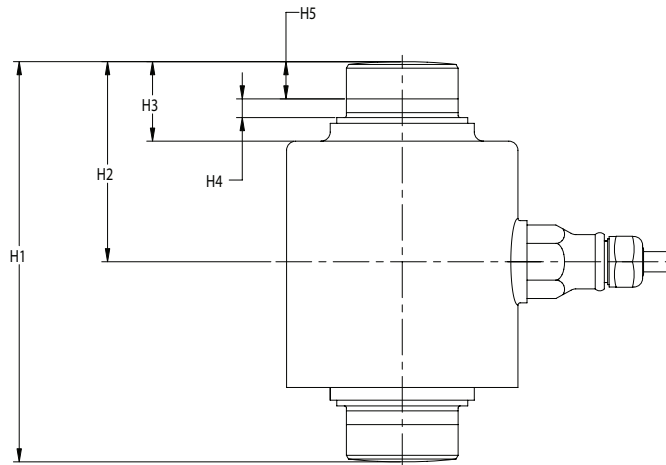
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STAINLESS STEEL ROCKER COLUMN LOAD CELL

SPECIFICATIONS

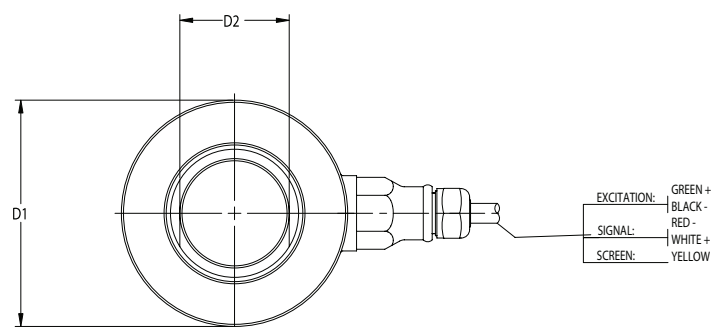
Load cell material	Stainless steel
	17-4 PH (1.4548)
Load cell capacity (lbs)	15k, 30k, 50k, 66k, 88k, 100k, 110k
Overload capacity	300%
Rating	IP69K (NEMA 6P)
Rated output (=RO)	$2 \pm 0.1\%$ mV/V
Calibration in mV/V/ Ω	
(A...1 classified)	$\leq \pm 0.05$ ($\leq \pm 0.005$) %RO
Excitation voltage	5...15 V
Zero balance	$\leq \pm 5\%$ RO
Input resistance	$1,150 \pm 50 \Omega$
Output resistance	$1,000 \pm 2 \Omega$
Insulation resistance	$\geq 5,000 M\Omega$
Operating temperature	-40 to 176°F (-40 to 80°C)
Safe load limit	200 %E _{max}
Ultimate load	300 %E _{max}
Load cell resistance	1,000 ohms
Load cell output	2.0 mV/V
Load cell cable protection	Polyurethane cable, stainless steel sheathing on truck and rail scales
Sealing	Complete hermetic sealing, cable entry sealed by glass-to-metal header
Approval	NTEP CC #92-098

DIMENSIONS



CAPACITY	H1	H2	H3	H4	H5	D1	D2
15k lbs.	3.50"	1.73"	0.669"	0.905"	0.433"	2.55"	1.10"
30k lbs.	3.50"	1.73"	0.669"	0.905"	0.433"	2.55"	1.10"
50k lbs.	3.50"	1.73"	0.669"	0.905"	0.433"	2.55"	1.10"
66k lbs.	5.50"	2.75"	1.02"	1.10"	0.511"	3.18"	1.53"
100k lbs.	6.00"	2.95"	1.22"	1.30"	0.511"	3.18"	1.54"
100k lbs.	7.00"	3.50"	1.26"	1.34"	0.67"	3.90"	1.73"
110k lbs.	7.00"	3.50"	1.26"	1.34"	0.70"	3.90"	1.73"

RATED OUTPUT: 2.0 mV/V
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