

# Stainless Steel, Multi-Column Compression Load Cell

## FEATURES

- Capacity ranges of 25,000 to 200,000 pounds, 10 to 100 metric tons
- Stainless steel, welded seal construction
- Single piece multi-column design
- 3 times more side load capacity than other designs
- Integral conduit adaptor
- 35 feet [10.7m] standard cable length
- Trade certified for NTEP Class III:5000d, IIIIL:10000d and OIML R-60 3000d
- Welded *Sensorgage*™ sealed to IP67 standards



## APPLICATIONS

- Truck scales
- Railroad track scales
- Tank, bin and hopper weighing

is suitable for use in truck scales, rail scales and high capacity silo weighing applications.

## DESCRIPTION

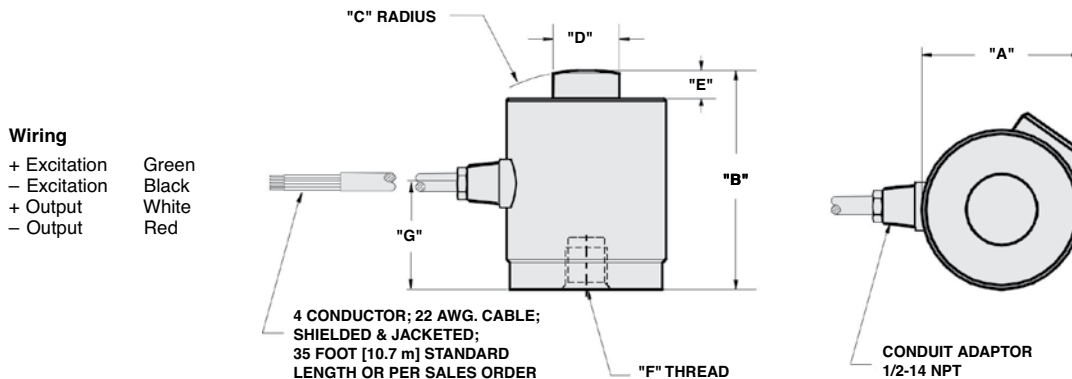
The 65088 is a high capacity, low profile, stainless steel compression load cell.

This product's stainless steel construction, welded seals and IP67 rating ensures ultimate survivability under harsh conditions.

The unique four column design offers excellent insensitivity to eccentric loads. This design is one of the most successful compression cells ever produced and

This load cell is rated intrinsically safe by the Factory Mutual System (FM); making it suitable for use in potentially explosive environments. This load cell is certified for Legal For Trade applications by both American NTEP and International OIML standards.

## OUTLINE DIMENSIONS in inches [millimeters]



CAPACITY	A	B	C	D	E	F	G
25k, 50k	3.00	3.25	6.00	1.25	0.40	1/2-20 UNF - 2B x .31 Deep	1.68
100k	4.00	5.00	6.00	2.31	0.51	3/4-16 UNF - 2B x .56 Deep	2.49
200k	6.00	7.25	17.00	3.13	1.04	3/4-16 UNF - 2B x .75 Deep	3.28
[10T, 25T]	[76.2]	[82.6]	[152.4]	[31.7]	[10.2]	[M12 x 1.75 - 6H x 8 Deep]	[42.7]
[40T, 50T]	[101.6]	[127.0]	[152.4]	[58.7]	[13.0]	[M20 x 2.5 - 6H x 14 Deep]	[63.2]
[100T]	[152.4]	[184.2]	[431.8]	[79.5]	[26.4]	[M20 x 2.5 - 6H x 19 Deep]	[83.3]

Capacities are in pounds [kg/T].

Stainless Steel, Multi-Column Compression Load Cell

<b>SPECIFICATIONS</b>					
<b>PARAMETER</b>	<b>VALUE</b>				<b>UNIT</b>
<b>Rated capacity—R.C. (E<sub>max</sub>)</b>	25k, 50k, 100k, 200k 10T, 25T, 40T, 50T, 100T				lbs metric tons
<b>NTEP/OIML accuracy class</b>	NTEP III	NTEP IIIL	Standard	OIML R60	
<b>Maximum no. of intervals (n)</b>	5000 multiple	10000 multiple		3000	
<b>Y = E<sub>max</sub>/V<sub>min</sub></b>	NTEP Cert. No. 95-134				Maximum available
<b>Rated output—R.O.</b>	2				mV/V
<b>Rated output tolerance</b>	0.25				±% mV/V
<b>Zero balance</b>	≤1.0				±% FSO
<b>Combined error</b>	0.02	0.02	0.03	0.02	±% FSO
<b>Non-repeatability</b>	0.01				±% FSO
<b>Creep error (20 minutes)</b>	0.025	0.03	0.03	0.017	±% FSO
<b>Temperature effect on zero</b>	0.0010	0.0010	0.0015	0.0010	±% FSO
<b>Temperature effect on output</b>	0.0008	0.0008	0.0008	0.0007	±% FSO/°F
<b>Compensated temperature range</b>	14 to 104 (-10 to 40)				°F (°C)
<b>Operating temperature range</b>	0 to 150 (-18 to 65)				°F (°C)
<b>Storage temperature range</b>	-60 to 185 (-50 to 85)				°F (°C)
<b>Safe sideload</b>	30				% of R.C.
<b>Maximum safe central overload</b>	150				% of R.C.
<b>Ultimate central overload</b>	400				% of R.C.
<b>Excitation, recommended</b>	5–20				VDC or VAC RMS
<b>Excitation, maximum</b>	25				VDC or VAC RMS
<b>Input impedance</b>	445.5–454.5				Ω
<b>Output impedance</b>	475.2–484.8				Ω
<b>Insulation resistance at 50 VDC</b>	>1000				MΩ
<b>Material</b>	Stainless steel				
<b>Environmental protection</b>	IP67				

FSO— Full Scale Output

R.C.— Rated Capacity

All specifications subject to change without notice.

## Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at [vpgsensors.com](http://vpgsensors.com).

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.