NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Double Ended Beam
Model: LP7151, LP7152, LP7153, LP7153A, LP7153B, LP7154, LP7155, LP7156, LP7158, LP7151-SS, LP7152-SS, LP7153-SS, LP7153A-SS, LP7153B-SS, LP7154-SS, LP7155-SS, LP7156-SS, LP7158-SS
nmax: 10 000
Capacity: 1 000 to 250 000 lb
Accuracy Class: (Multiple Cells) III L

Submitted By:
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Standard Features and Options

- Material: Alloy Steel or Stainless-Steel Construction
- Nominal Output: 2.0 mV/V to 3.0 mV/V
- 4-Wire Design
- Excitation Voltage: 10 VDC
- Bridge Resistance Input Nominal:700ohms
- Method of Sealing: Potted with Metal Cover and/or welded cover

See Page two for specific load cell models, parameters and vmin values.

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of *Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices*. Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Jason Flint
Chair, NCWM, Inc.

Kevin Schnepp
Chair, NTEP Committee
Issued: October 5, 2026

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Load Cell / LP7151, LP7152, LP7153, LP7153A, LP7153B, LP7154, LP7155, LP7156, LP7158, LP7151-SS, LP7152-SS, LP7153-SS, LP7153A-SS, LP7153B-SS, LP7154-SS, LP7155-SS, LP7156-SS, LP7158-SS

Model	Capacity (Emax, lb)	Vmin(lb)	Min Dead Load (Emin, lb)	n_{max}
LP7155,LP7155-SS	1 000	0.06	50	10 000
LP7155,LP7155-SS	2 500	0.16	125	10 000
LP7155,LP7155-SS	4 000	0.26	200	10 000
LP7152,LP7155 LP7152-SS,LP7155-SS	5 000	0.33	250	10 000
LP7152,LP7155-SS	7 500	0.50	375	10 000
LP7151,LP7152,LP7155 LP7151-SS,LP7152-SS,LP7155-SS	10 000	0.67	500	10 000
LP7151,LP7155 LP7151-SS,LP7155-SS	15 000	1.00	750	10 000
LP7151,LP7152,LP7153,LP7155 LP7151-SS,LP7152-SS,LP7153-SS,LP7155-SS	20 000	1.34	1000	10 000
LP7151,LP7152,LP7153,LP7154,,LP7155 LP7151-SS,LP7152-SS,LP7153-SS,LP7154-SS,LP7155-SS	25 000	1.67	1250	10 000
LP7152,LP7153,LP7154 LP7152-SS,LP7153-SS,LP7154-SS	30 000	2.00	1500	10 000
LP7153,LP7154,LP7155,LP7158 LP7153-SS,LP7154-SS,LP7155-SS,LP7158-SS	35 000	2.34	1750	10 000
LP7151,LP7152,LP7153,LP7154,LP7158 LP7151-SS,LP7152-SS,LP7153-SS,LP7154-SS,LP7158-SS	40 000	2.67	2000	10 000
LP7152,LP7153,LP7154,LP7158 LP7152-SS,LP7153-SS,LP7154-SS,LP7158-SS	45 000	3.00	2250	10 000
LP7151,LP7154 LP7151-SS,LP7154-SS	50 000(SE)	3.34	2500	10 000
LP7151,LP7152,LP7153,LP7153A,LP7153B,LP7154,LP7155,LP7156, LP7158 LP7151-SS,LP7152-SS,LP7153-SS,LP7153A-SS,LP7153B-SS,LP7154-SS,LP7155-SS,LP7156-SS,LP7158-SS	50 000	3.34	2500	10 000
LP7151,LP7152,LP7153,LP7153A,LP7153B,LP7154,LP7156,LP7158 LP7151-SS,LP7152-SS,LP7153-SS,LP7153A-SS,LP7153B-SS,LP7154-SS,LP7156-SS,LP7158-SS	60 000	4.00	3000	10 000
LP7151,LP7152,LP7153,LP7153A,LP7153B,LP7154,LP7158 LP7151-SS,LP7152-SS,LP7153-SS,LP7153A-SS,LP7153B-SS,LP7154-SS,LP7158-SS	65 000	4.34	3250	10 000
LP7151,LP7152,LP7153,LP7153A,LP7153B,LP7154,LP7155,LP7158 LP7151-SS,LP7152-SS,LP7153-SS,LP7153A-SS,LP7153B-SS,LP7154-SS,LP7155-SS,LP7158-SS	75 000	5.00	3750	10 000
LP7151,LP7152,LP7153,LP7153B,LP7154,LP7155 LP7151-SS,LP7152-SS,LP7153-SS,LP7153B-SS,LP7154-SS,LP7155-SS	100 000	6.67	5000	10 000
LP7151,LP7153,LP7154,LP7155 LP7151-SS,LP7153-SS,LP7154-SS,LP7155-SS	125 000	8.34	6250	10 000
LP7152,LP7152-SS	150 000	10.00	7500	10 000
LP7152,LP7152-SS	200 000	13.34	10000	10 000

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LP7152,LP7152-SS	250 000	16.67	12500	10 000

Application: The load cells may be used for Class III L scales for multiple cell applications consistent with the model designations, number of scale divisions, and parameters specified in this certificate. Load cells of a given accuracy class may be used in applications with lower accuracy class requirements provided the number of scale divisions, the vmin values, and temperature range are suitable for the application. The manufacturer may market the load cell with fewer divisions (nmax) and with larger vmin values than those listed on the certificate. However, the load cells must be marked with the appropriate nmax and vmin for which the load cell may be used.

Identification: An identification label located on the load cell states the manufacturer name, model, serial number NTEP Certificate of Conformance number and the capacity. Othe information will be specified on the documentation accompanying the loadcell.

Test Conditions: Two 50000 lb, two 75000 lb and one 20000 lb capacity load cells were tested at NIST using dead weights as the reference standard. The data were analyzed for multiple load cell applications. The cells were tested over a temperature range of -10 °C to 40 °C. Three tests were run on each cell at each temperature. The temperature effect on zero was measured and a time dependence (creep) test was performed. The barometric pressure test was waived due to the insensitivity of the load cell design to changes in barometric pressure.

Evaluated By: Kevin L. Chestnut (NIST Mass Force Group) (CN 11143)

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2026 Edition. *NCWM Publication 14: Weighing Devices*, 2026 Edition.

Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: J. Gibson (NCWM) 26-093

Example(s) of Device:



LP7151 / LP7151-SS

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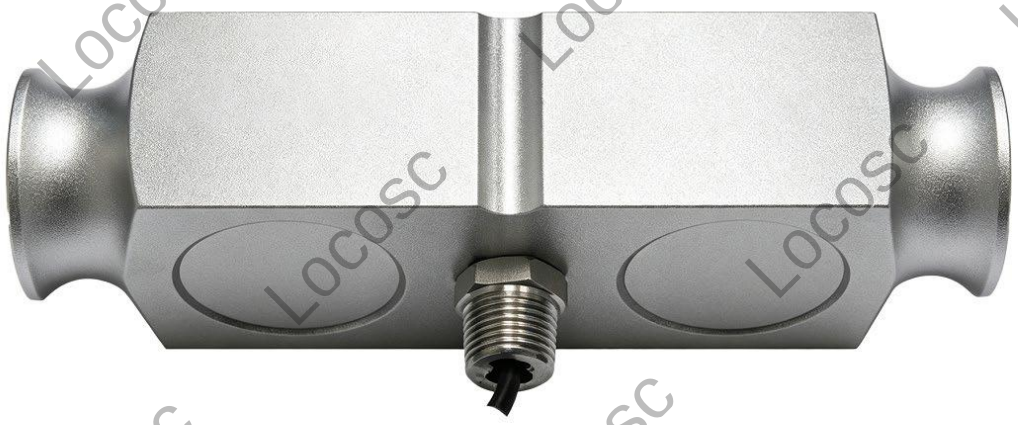
LP7152 / LP7152-SS



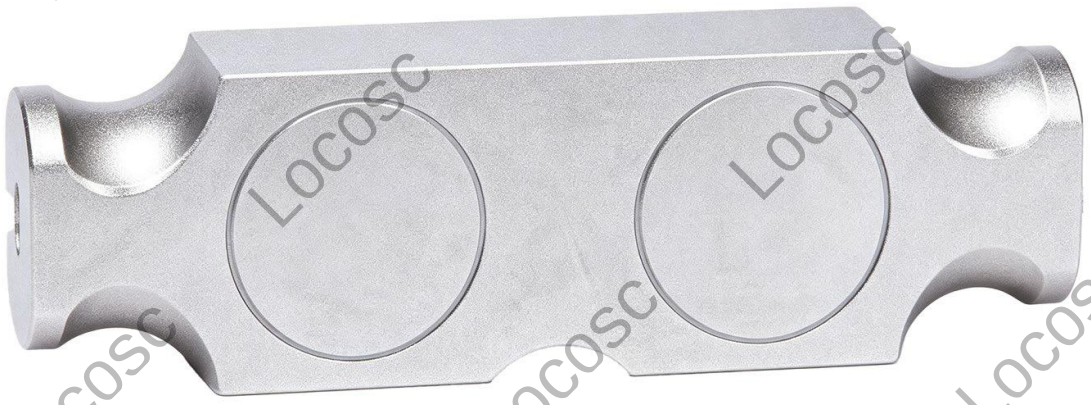
LP7153 / LP7153-SS

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Load Cell / LP7151, LP7152, LP7153, LP7153A, LP7153B, LP7154, LP7155, LP7156, LP7158, LP7151-SS, LP7152-SS, LP7153-SS, LP7153A-SS, LP7153B-SS, LP7154-SS, LP7155-SS, LP7156-SS, LP7158-SS



LP7153A / LP7153A-SS



LP7153B / LP7153B-SS

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Load Cell / LP7151, LP7152, LP7153, LP7153A, LP7153B, LP7154, LP7155, LP7156, LP7158, LP7151-SS, LP7152-SS, LP7153-SS, LP7153A-SS, LP7153B-SS, LP7154-SS, LP7155-SS, LP7156-SS, LP7158-SS



LP7154 / LP7154-SS



LP7155 / LP7155-SS

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Load Cell / LP7151, LP7152, LP7153, LP7153A, LP7153B, LP7154, LP7155, LP7156, LP7158, LP7151-SS, LP7152-SS, LP7153-SS, LP7153A-SS, LP7153B-SS, LP7154-SS, LP7155-SS, LP7156-SS, LP7158-SS



LP7156 / LP7156-SS



LP7158 / LP7158-SS