



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
 Beam, Bending
 Model: SLP845
 n_{max} : 5000 , single-cell
 Capacity: 15 kg to 200 kg (32 lb to 440 lb)
 Accuracy Class: III

Submitted By:

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Standard Features and Options

- The specific load cells covered by this Certificate are identified by the load cell capacities (see table below).
- Excitation Voltage: 5 - 15 VAC / VDC
- Nominal Output: 2 mv/V
- Counterforce Material: Stainless
- Cable: 6-wire design

Load Cell Parameters:

Capacity	n_{max}	v_{min}	Minimum Dead Load
15 kg* / 32 lb	5000	0.94 g / 0.002 lb	0.02 kg / 0.05 lb
22 kg / 48 lb	5000	2.0 g / 0.005 lb	0.02 kg / 0.05 lb
50 kg / 110 lb	5000	4.5 g / 0.01 lb	0.07 kg / 0.15 lb
100 kg* / 220 lb	5000	9.1 g / 0.02 lb	0.07 kg / 0.15 lb
200 kg / 440 lb	5000	18.2 g / 0.05 lb	0.07 kg / 0.15 lb

*Load cells tested

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST 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.

Stephen Benjamin
 Chairman, NCWM, Inc.

Kurt Floren
 Chairman, National Type Evaluation Program Committee
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Mettler-Toledo, LLC

Load Cell / SLP845

Application: The load cells may be used in Class III scales 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 v_{\min} values, and temperature range are suitable for the application. The manufacturer may market the load cell with fewer divisions (n_{\max}) and with greater v_{\min} values than those listed on the certificate. However, the load cells must be marked with the appropriate n_{\max} and v_{\min} for which the load cell may be used.

Identification: A pressure sensitive identification badge containing the manufacturer, model designation, and serial number is located on the load cell. All other required information, if not marked on the load cell, must be on an accompanying document including the serial number of the load cell.

Test Conditions: A Model SLP845 (15 kg and 100 kg capacity) load cell was tested by the NMi Certain B.V. at The Netherlands facility. Testing was conducted in accordance with the OIML DoMC Mutual Acceptance Arrangement, signed by the NCWM as a utilizing participant for load cell testing. Testing was conducted using deadweights as the reference standard. The load cells were tested over a temperature range of -10°C to 40°C with tests 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 conducted on these load cells. The data was analyzed for single load cell applications. OIML R60 selection criteria was used to determine cells tested.

Evaluated By: R. Scholten (NMi)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2012 Edition. NCWM, Publication 14: Weighing Devices, 2012 Edition.

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

Information Reviewed By: J. Truex (NCWM)

Example of Device:

