

***National Type Evaluation Program  
Certificate of Conformance  
for Weighing and Measuring Devices***

**For:**

Force Transducer (Load Cell)  
Compression  
Model: ASC  
 $n_{\max}$ : Multiple Cell: 10 000  
Capacity: See Below  
  
Accuracy Class: III L

**Submitted by:**

Revere Transducers  
a division of SI Technologies, Inc.  
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Tustin, CA 92780  
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**Standard Features and Options**

Canister type strain gauge load cell  
Stainless steel construction

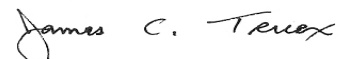
Model	Capacity (kg)	$v_{\min}$ (kg)	Minimum Dead Load (kg)
ASC	30 000	2.65	0
ASC	40 000	3.53	0
ASC	50 000	4.41	0

Number of wires: 4 wires  
Excitation voltage: 15 VDC maximum  
Nominal output: 2.0 mV/V  
Counterforce material: Stainless Steel  
Nominal Input Impedance: 702 ohms

This device was evaluated under the National Type Evaluation Program (NTEP) 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.



Don Onwiler  
Chairman, NCWM, Inc.



James C. Truex  
Chairman, National Type Evaluation Program Committee  
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**Revere Transducers  
Compression Load Cell  
Model: ASC**

**Application:** The load cells may be used in 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  $v_{\min}$  values, and temperature range are suitable for the application. The manufacturer may market the load cell with fewer divisions ( $n_{\max}$ ) and with larger  $v_{\min}$  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:** Two model ASC 40 000 kg 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.

**Type Evaluation Criteria Used:** NIST Handbook 44, 2005 Edition; NCWM Publication 14, 2005 Edition

**Tested By:** NIST Force Group, NIST Office of Weights and Measures

**Information Reviewed By:** S. Patoray (NCWM), L. Bernetich (NCWM)