



## NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Indicating Element  
Digital Electronic  
Model: LCM-200  
 $n_{max}$ : 10 000  
Accuracy Class: III / IIII

**Submitted By:**

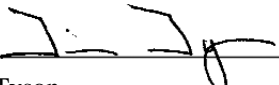
Vishay Transducers  
3 Edgewater Drive  
Norwood, MA 02062  
Tel: 781-298-2200  
Fax: 781-762-3988  
Contact: Bruce Yohr  
Email: [bruce.yohr@vishaypg.com](mailto:bruce.yohr@vishaypg.com)  
Web site: [www.vishaypg.com](http://www.vishaypg.com)

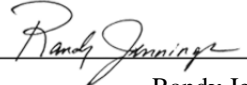
**Standard Features and Options****Standard Features:**

- Semi-automatic (push-button) Zero Setting Mechanism
- Automatic Zero Setting Mechanism (AZSM)
- Semi-automatic (push-button) Tare
- Programmable Tare
- Remote Printer Capability
- AC Power Supply
- Alphanumeric Display
- 4-20 mA Loop Communication Port – 485/422 Serial Port
- Remote Calibration / Configuration
- Linearity Calibration Points
- Category 2 Method of Sealing (see page 2)

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.

  
Tim Tyson  
Chairman, NCWM, Inc.

  
Randy Jennings  
Chairman, National Type Evaluation Program Committee  
Issued: May 19, 2011

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

The National Conference on Weights and Measures (NCWM) does not approve, recommend or endorse any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.



## Vishay Transducers

Indicating Element / LCm-200

**Application:** For use with approved and compatible weighing elements in general purpose weighing applications.

**Identification:** The identification information is located on a pressure sensitive badge and is located on top of the enclosure at the rear.

**Sealing:** Metrological adjustments are performed through the keyboard by menu selection. Access is protected by audit trail. To view counter, depress "Cal" key any time during normal operation. The device is sealed by a Category 2 audit trail and not by physical seal. To change parameters, the audit trail must be "opened" by depressing "EDIT" and "ENTER" to increment R&E seal lock counter. Each time any calibration parameters are altered, the counter will be incremented by "1."

**Test Conditions:** This Certificate supersedes Certificate of Conformance number 98-209A1 and was issued without additional testing to reactivate Certificate of Conformance number 98-209A1 without lapse. Changes were also made to update the contact information. Previous test conditions are listed below for reference.

**Certificate of Conformance Number 98-209A1:** This Certificate supersedes Certificate of Conformance number 98-209 and was issued without additional testing to reactivate Certificate of Conformance number 98-209 without lapse. Changes were also made to update the contact information.

**Certificate of Conformance Number 98-209:** The emphasis of this evaluation was on the device design, marking requirements, performance and compliance with influence factors. The indicating element was interfaced with a load cell simulator and a weighing element for this evaluation. The indicator was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F) and with power supplies of 105 VAC and 132 VAC.

**Evaluated By:** M. Smith (Measurement Canada) 98-209

**Type Evaluation Criteria Used:** NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2011. NCWM, Publication 14: Weighing Devices, 2011.

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

**Information Reviewed By:** G. Newrock (NIST), R. Suiter (NIST) 98-209; J. Truex (NCWM) 98-209A1, 98-209A2

**Example of Device:**

