

# National Conference on Weights and Measures

15245 Shady Grove Road, Suite 130 • Rockville, MD 20850

Certificate Number: 01-095

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

### **For:**

Indicating Element - Scale  
Digital Electronic  
Models: 9000XLM, 9000XLMIS  
 $n_{\max}$ : 10 000

Accuracy Class: III/IIIL

### **Submitted by:**

Doran Scales, Inc.  
1315 Paramount Parkway  
Batavia, IL 60510  
Tel: (630) 879-1200  
Fax: (630) 879-0073  
Contact: Bill Snyder

### **Standard Features and Options**

Semi-automatic zero with center of zero indicator	AC/DC power supply
Printing capabilities (PRINT key)	Motion indicator
Keyboard TARE	Fixed lb/kg/oz/g (UNITS) conversion
Programmable TARE	Push-button TARE
Gross/tare/net display modes	Programmable weight conversion
Gross and net weight accumulation	Four internal set points
Bi-directional and uni-directional RS232	Stainless steel enclosure
LED weight display	Programmable macros
Integral 2-line x 16-character alphanumeric message display	Category 1 audit trail capability (see Sealing on page 2)

### **Options:**

Fiber-optic serial interface  
Remote Display  
Remote switch (ZERO, TARE, UNITS, GROSS/NET)

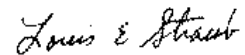
Temperature Range of  $-10^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  ( $14^{\circ}\text{F}$  to  $104^{\circ}\text{F}$ )

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.

Effective Date: November 27, 2001



Ronald D. Murdock  
Chairman, NCWM, Inc.



Louis E. Straub  
Chairman, National Type Evaluation Program Committee

Issue date: November 29, 2001

Note: The National Conference on Weights and Measures 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.

**Doran Scales, Inc.**  
**Indicating Element**  
**Models: 9000XLM, 9000XLMIS**

**Application:** For general purpose weighing when used with an approved and compatible weighing element. The model 9000XLMIS is designed for use in hazardous environments.

**Identification:** A destructible label is attached by adhesive to the rear cover of the indicator.

**Sealing:** The indicator utilizes a wire security seal threaded through two drilled head screws that hold the back of the indicator to the front panel.

This indicator also has a Category 1 electronic audit trail, with two event counters. To view the event counters:

1. Press "MENU" and then the "0(CAL)" button. The event counter for configuration parameters will be displayed in the weight display and the words "PARAMETER AUDIT" will appear in the auxiliary (lower) display.
2. Pressing "TARE" at this point will advance to the calibration parameter event counter in the weight display and the words "CALIBRATE AUDIT" will appear in the auxiliary (lower) display.
3. To Exit press the "MENU" button once.

**Test Conditions:** Two Doran indicators, Models 9000XLM and 9000XLMIS were submitted for evaluation. The emphasis of the evaluation was on the device design, marking requirements, operation and compliance with influence factor requirements. Several performance tests were conducted with the indicator (stainless steel housing) interfaced with a weighing element, a load cell simulator and a printer. The indicator was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Additionally, tests were conducted using power supplies of 100 VAC / 130 VAC and 5 VDC to 7.3 VDC.

The results of the evaluation indicate the device complies with the applicable requirements of NIST Handbook 44.

**Type Evaluation Criteria Used:** NIST Handbook 44, 2001 Edition.

**Tested By:** T. Lucas (OH)

**Information Reviewed By:** S. Patoray (NCWM)