

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

For:

Indicating Element
Digital Electronic
Models: 8000M and 8000MIS
n: 3000

Accuracy Class: III

Submitted by:

Doran Scales, Inc.
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Standard Features and Options

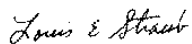
Semi-automatic zero
Automatic zero setting mechanism
Motion indicator
Semi-automatic tare
Gross/net display modes
AC/DC power supply

Options: External weight unit conversion (lb, kg, oz)
Ticket printer
Washdown safe
RS-232 serial data output

Temperature Range: -10 °C to 40 °C (14 °F to 104 °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: January 3, 1992



Louis E. Straub
Chairman, NCWM, Inc.



G. Weston Diggs
Chairman, National Type Evaluation Program Committee

Issue date: February 4, 1992

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.

This is a reissuance by the NCWM of a Certificate of Conformance already issued by the National Institute of Standards and Technology.

Doran Scales, Inc.
Indicating Element
Models: 8000M and 8000MIS

Application: General purpose indicating element.

Identification: The identification badge is located on the top right corner of the face of the indicator. It is a self-destructible adhesive badge.

Sealing: On the back of the indicator is a cover which provides access to the calibration and set-up programs. A lead and wire seal must be threaded through the two screws that hold that cover and through two adjacent screws which fasten the back plate of the indicator.

Test Conditions: This certificate supersedes Certificate of Conformance Number 89-051. This amended certificate is issued to add model no. 8000MIS. The 8000MIS indicator is metrologically and functionally identical to the model no. 8000M listed on Certificate of Conformance Number 89-051. The differences are that the battery and battery chargers have been removed from the indicator enclosure. The battery is enclosed in an external enclosure mounted on a U-bracket beneath the indicator head and is identified as model no. 8000BIS. The battery charger is in a separate enclosure and is identified as model no. 8000CIS. The model 8000MIS is Factory Mutual Approved for use in hazardous environments. The battery is removed from its enclosure and placed in the battery charger **in a nonhazardous location** when it is being recharged. No intrinsic safety barriers are required between the indicator and the battery when it is installed and in use. This certificate is issued on the basis of information provided by the manufacturer regarding the model 8000MIS and the original evaluation of the model 8000M. The test conditions from the previous certificate are below.

Certificate of Conformance Number 89-051: The emphasis of this evaluation was on the device design, operation, and compliance with influence factor requirements. The indicator was interfaced with a 30 X 0.01 lb weighing element for the purpose of this evaluation. The indicator was tested over a temperature range of -10 to 40 °C. Additional tests were conducted using power supplies of 100 and 130 VAC and with a battery power supply. Results of the evaluation indicate the device complies with the applicable requirements.

Type Evaluation Criteria Used: NIST Handbook 44, 1991 Edition

Tested By: B. Badenhop & J. Truex

Update Reviewed By: H. Oppermann, R. Whipple