

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

For:
 Indicating Element
 Digital Electronic
 Model: See below
 n_{max} : 5000 and 10 000

 Accuracy Class: III

Submitted by:
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Standard Features and Options

| Model | 900 | 850 | 200E | 200 | 400E | 400 |
|--------------------------------------|----------------------------|-----------------|----------------------------|------------------------------|----------------------------|----------------------------|
| Display type | Light Emitting Diode (LED) | LED | LED | Liquid Crystal Display (LCD) | LED | LCD |
| Housing type | Stainless Steel | Stainless Steel | Stainless Steel or Plastic | Stainless Steel or Plastic | Stainless Steel or Plastic | Stainless Steel or Plastic |
| n_{max} | 10 000 | 10 000 | 5000 | 5000 | 5000 | 5000 |
| Semi-automatic zero and tare | X | X | X | X | X | X |
| External lb/kg | X | X | X | X | X | X |
| RS 232 interface | X | X | X | X | X | X |
| Programmable set points for batching | Four | Two | -- | -- | -- | -- |
| Keyboard tare | X | -- | -- | -- | X | X |
| Power: AC adapter | X | X | X | X | X | X |

Note: "S" after the model number on the identification plate denotes a stainless steel enclosure.

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.



G. Weston Diggs
 Chairman, NCWM, Inc.



Dennis E. Ehrhart
 Chairman, National Type Evaluation Program Committee

Issue date: September 24, 2004

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.

Salter Weighing Products
Indicating Element
Model: 200, 200E, 400, 400E, 850, 900

Application: These indicators may be used with any approved and compatible weighing elements for general purpose weighing.

Identification: The identification plate is on top of the indicator. The indicator is mounted on a swivel mount that may be turned to view the identification information.

Sealing: Calibration and configuration parameters are accessed by toggling an internal switch or jumper to the set-up mode. A security seal prevents undetected access to the internal calibration switch.

Models with a plastic case can be sealed using a wire security seal through two screws that secure a cover plate over the opening of the calibration switch and a third screw that secures the case cover. Models with a stainless steel case can be sealed using a wire security seal through two screws that secure a cover plate over the opening of the calibration switch and two adjacent screws that secure the case cover.

Test Conditions: This Certificate supersedes Certificate of Conformance 00-065 and is issued without additional testing in order to update the submitted by information, clarify sealing information and to change the model designation. Model S-780 is now Model 900, Model S-770 is now Model 850, Model S-200E is now Model 200E, Model S-200 is now Model 200, Model S-260E is now Model 400E, and Model S-260 is now Model 400. No other changes were made to any metrological features of this device.

Certificate of Conformance 00-065: This Certificate is issued based on the following tests and upon information provided by the manufacturer. The Models S-770 and S-200 were submitted for evaluation. The emphasis of this evaluation was on device design, operation, and compliance with the influence factor requirements. The indicating elements were interfaced to load cell simulators and tested for accuracy over a temperature range of -10 °C to 40 °C and 100 VAC and 130 VAC. The indicating elements were attached to weighing elements and tested for compliance with zone of uncertainty, AZSM, width of zero, and discrimination requirements. One indicator was attached to a printer to check print format.

The Model S-260E was also submitted for evaluation. The Models S-260 and S-260E are metrologically similar to the Models S-200 and S-200E with the addition of a numerical keypad used to enter keyboard tare. The emphasis of the evaluation was on the entry of keyboard tare compliance with tare requirements and its interaction with other indicator functions. Additionally, a different type of metal foil identification badge was evaluated for compliance with permanence of markings and durability requirements.

In addition, the Model S-780 was submitted for evaluation. The Model S-780 is metrologically similar to the Model S-770 with the addition of some keys and software functions such as keyboard tare. The operation and functions of these keys were tested in the laboratory.

Evaluated By: Bill Fishman (NY) and Ed Szesnat (NY) 00-065

Type Evaluation Criteria Used: NIST Handbook 44, 2000 Edition; NCWM Publication 14, 2000 Edition

Conclusion: The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements.

Information Reviewed By: L. Sebring (NIST) and G. Newrock (NIST) 00-065; S. Patoray (NCWM) 00-065A1; L. Bernetich (NCWM) 00-065A1