



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Models: OP-900A and OP-900B
 n_{max} : 5 000
Accuracy Class: III

Submitted By:

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Standard Features and Options

- Semi-automatic (push-button) Zero
- Automatic Zero Tracking (AZT)
- Keyboard Tare
- Receipt Printer
- AC Power
- Gross/Tare /Net Display
- LED Display (model OP-900A)
- LCD Display (model OP-900B)
- Pound/kg Conversion
- RS-232 Communication Port
- Wall Mounting Bracket
- DC voltage (internal, rechargeable lead acid battery)

OP-900A MS: Mild steel enclosure with LED display

OP-900A SS: Stainless steel enclosure with LED display

OP-900B MS: Mild steel enclosure with LCD display

OP-900B SS; OP-900B SL; OP-900B EX: Stainless steel enclosure with LCD display

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.

James Cassidy
Chairman, NCWM, Inc.

Kristin Macey
Chairman, National Type Evaluation Program Committee
Issued: January 16, 2012

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Optima Scale Manufacturing Inc.

Indicating Element / OP-900A and OP-900B

Application: General purpose indicating element for use with a compatible and certified weighing element.

Identification: A tamper resistant adhesive label is located on the top of the indicator.

Sealing: A physical security seal is threaded through two drilled head screws securing the back cover and preventing access to the calibration switch located inside the device. Calibration is initiated by turning the calibration switch on. While in calibration mode the indicator displays "Cal." Press "Print" to save entries and then turn the calibration switch off to return to normal weighing.

Test Conditions: This Certificate supersedes Certificate of Conformance number 12-004 and is issued to add DC voltage to Optima Models OP-900A and OP-900B indicating elements. An Optima model OP-900 indicating element was submitted for evaluation of VDC capability. Multiple increase and decrease testing was performed at 5.67VDC, 6.0 VDC and 6.60 VDC. Previous test conditions are listed below for reference.

Certificate of Conformance Number 12-004: This Certificate is issued based upon the following tests and upon information provided by the manufacturer. The emphasis of the evaluation was on device design, operation, performance, and compliance with influence factor requirements. The model OP-900 was submitted for evaluation and interfaced with a RADWAG weighing element model WPT-10 (Capacity 10 x 0.002 lb, Certificate of Conformance 07-067A1). Increasing/decreasing load tests were performed over a temperature range of -10°C to 40°C (14°F to 104°F) and line voltages of 100 VAC and 130 VAC. Additionally, the indicator was evaluated for RFI, tare, discrimination, center of zero, and print format tests.

Evaluated By: S. Boyd (CA) 12-004; J. Gibson (OH) 12-004A1

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2018 Edition. *NCWM Publication 14 Weighing Devices*, 2018 Edition.

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

Information Reviewed By: J. Truex (NCWM) 12-004, 12-004A1

Examples of Device:



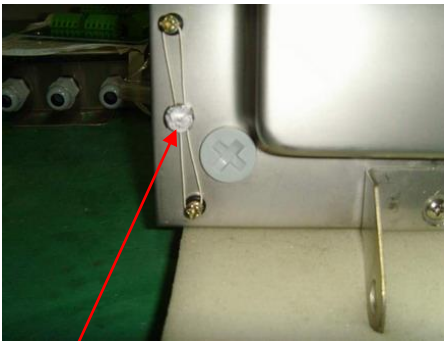
Optima Model OP-900A Mild & Stainless-Steel

Optima Model OP-900B Mild & Stainless steel

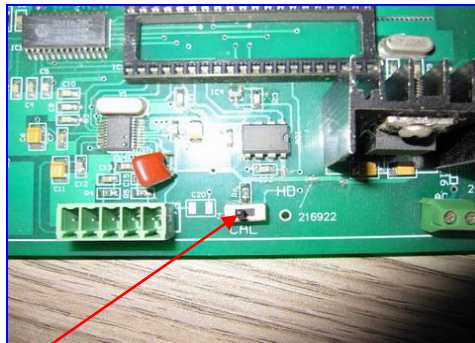


Optima Scale Manufacturing Inc.

Indicating Element / OP-900A and OP-900B



Rear View, Lead Wire Seal



Inside View, Calibration Switch

