



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Computing Scale
 Digital Electronic
 Model: TVP-xxB and TVP-xxP Series (xx = capacity)
 n_{max} : 6000
 e_{min} : (see below)
 Capacity: (see below)
 Platform: 10.5 in x 8 in
 Accuracy Class: III

Submitted By:

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Standard Features and Options

Model	Capacity / Increment Size		
	oz	lb	kg
TVP-12B / TVP-12P	160 x 0.05	12 x 0.002	6 x 0.001
TVP-30B / TVP-30P	480 x 0.1	30 x 0.005	12 x 0.002
TVP-60B / TVP-60P	960 x 0.2	60 x 0.01	30 x 0.005

- Semi-automatic zero setting mechanism (SAZSM)
- Operator and customer backlit LCD display
- Customer Tower Display (optional)
- Automatic Zero-Tracking Mechanism (AZT)
- PLU capability (optional)
- Initial zero setting mechanism (IZSM)
- External ounce/pound/kilogram unit conversion (available at zero load only)
- External AC/DC transformer (100 – 240 VAC)
- Rechargeable internal battery (6 VDC)
- External printer (optional)
- RS-232 port (optional)
- Platter tare
- Keyboard tare
- Pre-tare
- Multi-Interval (optional)
- Power Save Mode

Load cell: Tscale Model: BX6 (Non-NTEP certified)

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.

Ivan Hankins
 Chair, NCWM, Inc.

Hal Prince
 Chair, NTEP Committee
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Computing Scale / TVP-xxB and TVP-xxP Series

Application: A retail computing scale for general purpose retail weighing applications.

Identification: A tamper evident adhesive label is attached to the right side of the scale housing with markings, the capacity X division statement is located above the weight display.

Sealing: Solution A: The scale is sealed in two locations with a self-destructing paper seal over a plastic disc. The first sealing location is the calibration switch its located under the scale in the front left corner and sealed with the paper seal and plastic disc. The second sealing location is under the scale in the middle, there is a screw that is covered with a plastic disc and paper seal. Sealing this screw prevent the scale housing from being separated.

Solution B: There are two drilled head screws for a wire seal. The calibration switch is located under one of the drilled head screws. The wire seal must be removed before the calibration switch can be accessed.

Test Conditions: This certificate was issued based upon the following tests and upon information provided by the manufacturer. This Certificate supersedes Certificate of Conformance 19-038A1 and is issued to add pre-tare function. A model TVP 60 lb x 0.01 lb was submitted for testing. Multiple pre-tare functions were performed. The correct annunciators for pre-tare and net were active, following pre-tare entry. No further testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 19-038A1: This Certificate supersedes Certificate of Conformance 19-038 and was issued to include a second method of sealing using (2) two drilled head screws and a wire seal and to update contact email. Based on information supplied by the manufacturer no further testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 19-038: This certificate was issued based upon the following tests and upon information provided by the manufacturer. The emphasis of the evaluation was on the device design, operation performance and marking requirements. Four models of the TVP Series were submitted for evaluation all were 6kg x 0.001kg and a model TVP multi-interval 15/30kg x 0.005/0.01kg. Multiple increasing/decreasing load, shift, and discrimination tests were performed. The scale was tested at 85 VAC and 264 VAC and 4.6 VDC to 13.2 VDC. Functions such as lb/kg unit switching, price computing, PLU manual entry and manual tare operations were evaluated. A load of approximately one-half capacity was applied 100 000 times, increasing and decreasing load tests were performed periodically during and at the conclusion of permanence.

Evaluated By: J. Gibson (OH) 19-038; M. Manheim (NCWM) 19-038A1, 19-038A2

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: D. Flocken (NCWM) 19-038, 19-038A1, 19-038A2



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Computing Scale / TVP-xxB and TVP-xxP Series

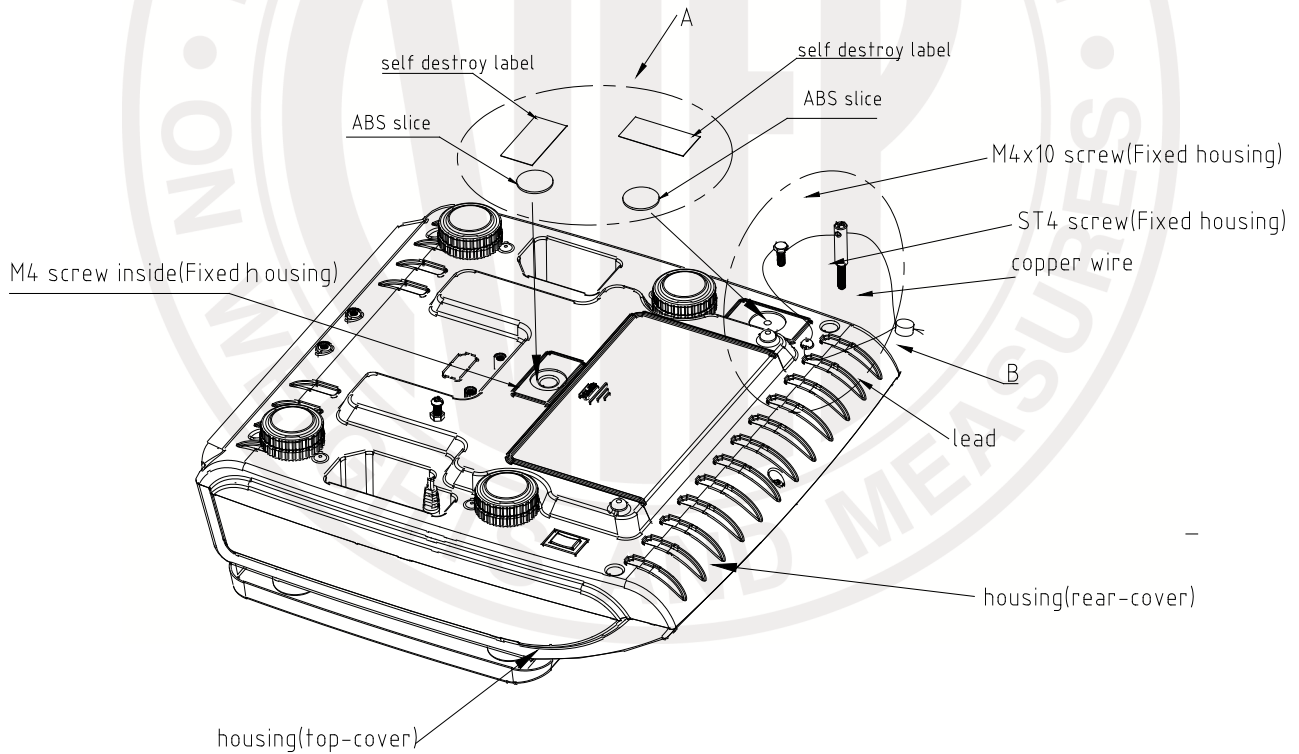
Examples of Device:



TVP-xxB

TVP-xxP

TVP series seal drawing



Solution A: seal label, solution B: lead seal, only select one solution (A or B)