



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-Computing Scale
Electronic Bench/Counter
Model: Bench Pro BP Series (See table for all models)
 n_{max} : 5600
 e_{min} : 0.005 lb (0.002kg) Single Interval
 e_{min} : 0.05 oz (0.001 kg) for Multiple range/Multiple Interval
Capacity: 15 to 300 lb (6 to 150 kg)
Platform: See Table
Accuracy Class: III

Submitted By:

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Standard Features and Options

Standard Features:

Platform size: 6 in x 10 in to 24 in x 24 in
Length or width of the platform can be increased by 125% not to exceed the maximum platform area of 576 sq. in.

| | |
|---|--|
| Semi-Automatic (Push Button) Zero Setting Mechanism (SAZSM) | AC to DC power supply |
| Automatic Zero Tracking (AZT) | Liquid Crystal Display (LCD) |
| Initial Zero Setting Mechanism (IZSM) | Gross/Net Display |
| Semi-Automatic (push button) Tare | External unit key (kg, g, lb, and oz.) |
| Battery Saving Feature (Auto Shut-off) | RS 232 Serial communication port |
| USB HID interface | lb/oz. units postal scale only |
| Multiple Range / Multiple interval (35 kg model only) | |

Options:

| | |
|------------------------------|------------------------|
| Plastic flat Platter | Tower/Pedestal display |
| Stainless steel flat platter | Battery Power Supply |
| Roller conveyor Platter | Ball conveyor Platter |
| Mild steel flat platter | |

Load Cells Used:

| | |
|----------------------------|---------------------------|
| Rice Lake 1521A (non-NTEP) | Zemic L6D8 (non-NTEP) |
| Rice Lake SP4 (non-NTEP) | True-Tec PA06 (non-NTEP) |
| Rice Lake PWM16 (non-NTEP) | True-Tec PA06M (non-NTEP) |

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.

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Rice Lake Weighing Systems
Non-Computing Scale / Bench Pro (BP series)

| Model | Platter Size (in) | Capacity x Division Size | n_{max} |
|--------------|-------------------|--|--------------------|
| BP 0610-6R | 6 x 10 | 6 kg / 15 lb x 0.002 kg / 0.005 lb | 3000 |
| BP 0610-15R | 6 x 10 | 15 kg / 30 lb x 0.005 kg / 0.010 lb | 3000 |
| BP 1010-6R | 10 x 10 | 6 kg / 15 lb x 0.002 kg / 0.005 lb | 3000 |
| BP 1010-15R | 10 x 10 | 15 kg / 30 lb x 0.005 kg / 0.010 lb | 3000 |
| BP 1214-6R | 12 x 14 | 6 kg / 15 lb x 0.002 kg / 0.005 lb | 3000 |
| BP 1214-15R | 12 x 14 | 15 kg / 30 lb x 0.005 kg / 0.010 lb | 3000 |
| BP 1214-35P | 12 x 14 | 35 kg x 0.01 kg, 70 lb x 0.02 lb or 70 lb x 0.5 oz | 5000 / 3500 / 2240 |
| | | 5/35 kg x 0.001/0.01 kg or 7/70 lb x 0.05/0.5 oz | 5000 / 2240 |
| | | 5/10/35 kg x 0.001/0.002/0.01 kg | 5000 |
| BP 1214-75S | 12 x 14 | 75 kg / 150 lb x 0.020 kg / 0.050 lb | 3000 |
| BP 1216-15R | 12 x 16 | 15 kg / 30 lb 0.005 kg / 0.010 lb | 3000 |
| BP 1216-35S | 12 x 16 | 35 kg / 70 lb 0.010 kg / 0.020 lb | 3500 |
| BP 1216-50S | 12 x 16 | 50 kg / 100 lb 0.010 kg / 0.020 lb | 5000 |
| BP 1216-75S | 12 x 16 | 75 kg / 150 lb 0.020 kg / 0.050 lb | 3750 / 3000 |
| BP 1618-50S | 16 x 18 | 50 kg / 100 lb 0.010 kg / 0.020 lb | 5000 |
| BP 1618-75S | 16 x 18 | 75 kg / 150 lb 0.020 kg / 0.050 lb | 3750 / 3000 |
| BP 1618-150S | 16 x 18 | 150 kg / 300 lb 0.050 kg / 0.100 lb | 3000 |
| BP 1818-50S | 18 x 18 | 50 kg / 100 lb 0.010 kg / 0.020 lb | 5000 |
| BP 1818-75S | 18 x 18 | 75 kg / 150 lb 0.020 kg / 0.050 lb | 3750 / 3000 |
| BP 1818-150S | 18 x 18 | 150 kg / 300 lb 0.050 kg / 0.100 lb | 3000 |
| BP 1820-75S | 18 x 20 | 75 kg / 150 lb 0.020 kg / 0.050 lb | 3750 / 3000 |
| BP 1820-150S | 18 x 20 | 150 kg / 300 lb 0.050 kg / 0.100 lb | 3000 |
| BP 2020-150S | 20 x 20 | 150 kg / 300 lb 0.050 kg / 0.100 lb | 3000 |
| BP 1822-150S | 18 x 22 | 150 kg / 300 lb 0.050 kg / 0.100 lb | 3000 |
| BP 2222-150S | 22 x 22 | 150 kg / 300 lb 0.050 kg / 0.100 lb | 3000 |
| BP 2224-150S | 22 x 24 | 150 kg / 300 lb 0.050 kg / 0.100 lb | 3000 |
| BP 2424-150S | 24 x 24 | 150 kg / 300 lb 0.050 kg / 0.100 lb | 3000 |



Rice Lake Weighing Systems

Non-Computing Scale / Bench Pro (BP series)

Application: Non-Computing portable scale for general purpose weighing applications, Model BP-1214-35P Multiple Range/Multi-interval in lb/oz. units is for postal use only.

Identification: The required markings are on a self-adhesive tamper evident label attached to the base under the platter on the front side of the scale. The word “Void” is displayed if an attempt is made to remove the markings label.

Sealing: Category 1 physical seal no audit trail all models. There is a round push button switch located on the corner of the circuit board under the cover that allows access to the calibration and configuration parameters. Sealing is accomplished either by:

- A lead and wire seal threaded thru a drilled fillister head screw and a fixed point on the stainless-steel cover preventing access to the calibration switch.
- Or a self-destructing seal over a plastic plug that covers the hole that allows access to the calibration switch.

All models of scales automatically return to the weighing mode after exiting the calibration or configuration menu.

Test Conditions: This certificate supersedes Certificate of Conformance Number 17-002 and is issued to increase the Bench Pro series capacities and the design, size and material used for the platters. Eight models from the Bench Pro (BP) series were submitted for evaluation. The emphasis of the evaluation was on the device design, marking, operation, performance, and compliance with influence factor requirements. For the purpose of the evaluation the following models were submitted, 150 kg x 0.050 kg, 75 kg x 0.02, 50 kg x 0.010 kg (two models), 35 kg x 0.01, 15 kg x 0.005 kg (two models) and a 6 kg x 0.002. All optional platters were submitted and evaluated on a 50 kg x 0.010 kg model. Several increasing/decreasing load tests, shift tests, and discrimination tests were performed on each scale. The scales were tested with an AC power supply at 85 VAC and 265 VAC. A warm up test, power interruption test, and suitability of level indicator tests were also performed. The scales were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of approximately one-half capacity was applied to each scale over 100 000 times. The scales were tested periodically during this time. Previous test conditions are listed below for reference.

Certificate of Conformance 17-002: Four models from the BP-1214 series were submitted for evaluation. The emphasis of the evaluation was on the device design, marking, operation, performance, and compliance with influence factor requirements. For the purpose of the evaluation a 75 kg x 0.02, a 70 lb /oz x 0.02 oz, a 35 kg x 0.01 and a 6 kg x 0.002 were submitted. Several increasing/decreasing load tests, shift tests, and discrimination tests were performed on each scale. The scales were tested with an AC power supply at 85 VAC and 265 VAC then a DC power supply at 4.3 VDC and 13.2 VDC. A warm up test, power interruption test, and suitability of level indicator tests were also performed. The scales were tested over a temperature range of -10°C to 40°C (14° F to 104°F). A load of approximately one-half capacity was applied to each scale over 100 000 times. The scales were tested periodically during this time.

Evaluated By: J. Gibson (OH) 17-002, 17-002A1

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2017 Edition. *NCWM Publication 14 Weighing Devices*, 2017 Edition.

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

Information Reviewed By: J. Truex (NCWM) 17-002, 17-002A1

Examples of Device:

Remote Display Stainless Steel Platter

Pedestal Display Plastic Platter



Rice Lake Weighing Systems
Non-Computing Scale / Bench Pro (BP series)



Stainless Steel Platter / Pedestal Display



Plastic Platter



Stainless Steel Platter



Mild Steel Platter



Roller Ball Platter

Roller conveyor Platter



Rice Lake Weighing Systems Non-Computing Scale / Bench Pro (BP series)



Stainless Steel Platter



Calibration switch BP Series 1214 Models

Sealing / Calibration Switch BP Series

