



## 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**

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 Model: RL1521A (NTEP CC 98-166) or other NTEP certified and metrologically equivalent.  
 True-Tec Model PA06 (NTEP CC 16-098) or other NTEP certified and metrologically equivalent.  
 Zemic Model:L6D8 (Non-NTEP)  
 Rice Lake Model: RLSP4 (NTEP CC 05-114) or other NTEP certified and metrologically equivalent.  
 Rice Lake Model: RLPWM16 (NTEP CC 05-112) or other NTEP certified and metrologically equivalent.

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.

Hal Prince  
 Chairman, NCWM, Inc.

Craig VanBuren  
 Chair, NTEP Committee  
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**Rice Lake Weighing Systems**  
Non-Computing Scale / Bench Pro (BP series)

Model	Platter Size(in)	Capacity x Division size	$\Pi_{max}$	Load Cell
BP 0610-6R	6 x 10	6 kg / 15 lb x 0.002 kg / 0.005 lb	3000	RL1521A
BP 0610-15R	6 x 10	15 kg / 30 lb x 0.005 kg / 0.010 lb	3000	RL1521A
BP 1010-6R	10 x 10	6 kg / 15 lb x 0.002 kg / 0.005 lb	3000	RL1521A
BP 1010-15R	10 x 10	15 kg / 30 lb x 0.005 kg / 0.010 lb	3000	RL1521A
BP 1214-6R	12 x 14	6 kg / 15 lb x 0.002 kg / 0.005 lb	3000	PA06
BP 1214-15R	12 x 14	15 kg / 30 lb x 0.005 kg / 0.010 lb	3000	PA06
BP 1214-35P	12 x 14			PA06
Single interval		35 kg x 0.01 kg, 70 lb x 0.02 lb or 70 lb x 0.5 oz	5000 / 3500 / 2240	
Dual-range/interval		5/35 kg x 0.001/0.01 kg or 7/70 lb x 0.05/0.5 oz	5000 / 2240	
Triple-range/interval		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	L6D8
BP 1216-15R	12 x 16	15 kg / 30 lb 0.005 kg / 0.010 lb	3000	RLSP4
BP 1216-35S	12 x 16	35 kg / 70 lb 0.010 kg / 0.020 lb	3500	RLSP4
BP 1216-50S	12 x 16	50 kg / 100 lb 0.010 kg / 0.020 lb	5000	RLSP4
BP 1216-75S	12 x 16	75 kg / 150 lb 0.020 kg / 0.050 lb	3750 / 3000	RLSP4
BP 1618-50S	16 x 18	50 kg / 100 lb 0.010 kg / 0.020 lb	5000	RLPWM16
BP 1618-75S	16 x 18	75 kg / 150 lb 0.020 kg / 0.050 lb	3750 / 3000	RLPWM16
BP 1618-150S	16 x 18	150 kg / 300 lb 0.050 kg / 0.100 lb	3000	RLPWM16
BP 1818-50S	18 x 18	50 kg / 100 lb 0.010 kg / 0.020 lb	5000	RLPWM16
BP 1818-75S	18 x 18	75 kg / 150 lb 0.020 kg / 0.050 lb	3750 / 3000	RLPWM16
BP 1818-150S	18 x 18	150 kg / 300 lb 0.050 kg / 0.100 lb	3000	RLPWM16
BP 1820-75S	18 x 20	75 kg / 150 lb 0.020 kg / 0.050 lb	3750 / 3000	RLPWM16
BP 1820-150S	18 x 20	150 kg / 300 lb 0.050 kg / 0.100 lb	3000	RLPWM16
BP 2020-150S	20 x 20	150 kg / 300 lb 0.050 kg / 0.100 lb	3000	RLPWM16
BP 1822-150S	18 x 22	150 kg / 300 lb 0.050 kg / 0.100 lb	3000	RLPWM16
BP 2222-150S	22 x 22	150 kg / 300 lb 0.050 kg / 0.100 lb	3000	RLPWM16
BP 2224-150S	22 x 24	150 kg / 300 lb 0.050 kg / 0.100 lb	3000	RLPWM16
BP 2424-150S	24 x 24	150 kg / 300 lb 0.050 kg / 0.100 lb	3000	RLPWM16



## 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 17-002A1 and is issued to add load cell description and model numbers. Per NTEP policy and manufactures information, no additional testing was deemed necessary. Previous test conditions are listed below for reference.

**Certificate of Conformance 17-002A1:** 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; M. Manheim (NCWM) 17-002A2

**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; D. Flocken (NCWM) 17-002A2



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

**Examples of Device:**

Remote Display Stainless Steel Platter



Pedestal Display Plastic Platter



Stainless Steel Platter / Pedestal Display



Plastic Platter



Stainless Steel Platter





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

Roller Ball Platter



Roller conveyor Platter



Mild Steel Platter



Stainless Steel Platter



Calibration switch BP Series 1214 Models



Sealing / Calibration Switch BP Series

