



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-computing Scale
 Wheel-Load Weigher, Digital Electronic
 Model: LP600, LP630, & LS630
 n_{max} : 500
 Capacity: 10 000 kg x 20 kg
 22 000 lb x 50 lb
 Platform: (see below)
 Accuracy Class: IIII

Submitted By:

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Standard Features and Options

Semi-automatic (push-button) Zero (SAZSM)
 Automatic Zero Tracking (AZT)
 Initial Zero Setting Mechanism (IZSM)
 Unit Conversion (lb, kg)
 Battery powered
 12 VDC, 120 or 220 VAC charging or direct power adapter
 Digital multi-point calibration
 1.0" (25.4 mm) liquid crystal display with back-light
 RS-485 communication port
 Altitude/Latitude Correction
 Low Battery Indicator
 Solar Battery Recharging
 Wireless Communication

Optional Capacities:

20 000 lb x 50 lb	10 000 lb x 50 lb
10 000 kg x 20 kg	5 000 kg x 20 kg

Platform Sizes: for each capacity:

15" x 15" (All models)
 22.5" x 15" (LP600)
 30.5" x 15" (LP630 & LS630)

This Certificate is issued based upon influence factor test data provided by the manufacturer and test data collected at room temperature in the NTEP laboratory.

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.

Ronald Hayes
 Chairman, NCWM, Inc.

John Gaccione
 Committee Chair, National Type Evaluation Program Committee
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Intercomp Corporation
Non-computing Scale / LP600, LP630, & LS630

Application: For use in law enforcement as a wheel-load weigher either individually or in pairs.

Identification: Identification is found in two locations: (1) On a label located under the weight display, which is protected by a clear plastic cover. (2) Manufacturer information, serial number, and other required information is located below the sealable cover facing the handle with an adhesive clear plastic cover.

Sealing: To prevent access to a calibration button for the set-up and calibration mode a wire security seal can be threaded through the two drilled head screws used to secure the display cover.

Test Conditions: This certificate supersedes Certificate of Conformance 00-091PA2 and is issued to add a solar battery recharging option and add wireless capability to the Standard Features and Options box on this certificate. The wireless feature was evaluated in previous testing but failed to get mentioned on the certificate. The solar battery recharging option was evaluated on a similar device manufactured by Intercomp and according to the manufacture's information, is nearly identical to the solar panels used on this wheel-load weigher. No additional testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance 00-091PA2: This Certificate supersedes Certificate of Conformance 00-091PA1 and is issued to add a 30.5 inch x 15 inch platform size (LP630 & LS630), and a wireless weighing/load receiving element (LS630). Several increasing load and return to zero tests were performed to 19900 lb of known test weight, and to 22000 lb using a calibrated proving ring. Additional testing in pairs with the wireless (LS630) models interfaced with the Intercomp PT20 Indicating Element (NTEP CC 12-108) up to 40 000 lb were also performed using a calibrated proving ring. A specifically designed pads provided by the manufacture measuring 10 inches x 17 inches were used to distribute the load and simulate pneumatic tire loads. An out of level test at 3° (5%) was performed in all four directions using a 19900 lb test load of known test weight. No further testing was deemed necessary.

Certificate of Conformance Number 00-091PA1: This certificate supersedes Certificate of Conformance 00-091P and is issued to include 10 000 lb x 50 lb (5 000 kg x 20 kg) capacity and 15 inch x 15 inch platform size. Since the original evaluation covered 22 000 lb x 50 lb (10 000 kg x 20 kg) capacity and 22 ½ inch x 15 inch platform, no further evaluation was required.

Certificate of Conformance Number 00-091P: Six scales were initially tested in the laboratory. Several increasing load and return to zero tests were performed to 22 000 lb using a calibrated proving ring. A specifically designed pad provided by the manufacturer was used to distribute the load and simulate pneumatic tire loads. Out-of-level tests at 3° (5%) were performed in all four directions on two scales using a 19 900 lb test load. The scales were put into the field and used for over 30 days, with the minimum use criteria required by NTEP being met. Increasing load, return to zero, and out-of-level tests were repeated using a 19 900 lb test load. Additionally, DC power supply tests were conducted over a range of 8.15 VDC to 20 VDC.

Evaluated By: T. Lucas (OH) 00-091P; W. West (OH) 00-091PA1; T. Buck (OH), C. Harris (OH) 00-091PA2; T. Buck (OH) 00-091PA3

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2014 Edition. *NCWM Publication 14 Weighing Devices*, 2014 Edition.

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

Information Reviewed By: S. Patoray (NCWM), L. Bernetich (NCWM) 00-091PA1; J. Truex (NCWM) 00-091PA2, 00-091PA3



Intercomp Corporation
Non-computing Scale / LP600, LP630, & LS630

Examples of Device:

LP630

LS630

LP600 with solar battery charger

