

***National Type Evaluation Program
Certificate of Conformance
for Weighing and Measuring Devices***

For:
Bench Scale
Digital Electronic
Model: DP-6100GP
 n_{\max} : 3000
Capacity: 60 lb, 150 lb, and 300 lb
Platform: 350 mm x 500 mm (14" x 20"), and
410 mm x 513 mm (16.14" x 20.19")
Accuracy Class: III

Submitted by:
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Standard Features and Options

Capacity (lb)	Capacity (SI)
60 x 0.02	30 kg x 0.01 kg
150 x 0.05	60 kg x 0.02 kg
300 x 0.1	150 kg x 0.05 kg

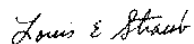
Liquid crystal display
Semi-automatic tare and zero with motion detection
Initial zero setting mechanism
Automatic zero setting mechanism
Externally selectable weight units (lb/ kg)
Externally selectable gross/net display
Battery power supply (4 "D" batteries)
Over/under check-weighing capability
Keyboard tare

Options: AC/DC adapter
Attached journal printer

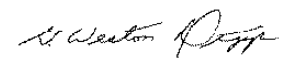
Temperature Range: -5 to 40 °C (23 to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of 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.

Effective Date: December 10, 1996



Louis E. Straub
Chairman, NCWM, Inc.



G. Weston Diggs
Chairman, National Type Evaluation Program Committee

Issue date: January 12, 1999

Note: The National Conference on Weights and Measures does not "approve", "recommend", or "endorse" any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.

This is a reissuance by the NCWM of a Certificate of Conformance already issued by the National Institute of Standards and Technology.

Yamato Corporation
Digital Electronic Bench Scale
Model: DP-6100GP

Application: General purpose weighing.

Identification: The manufacturer, model, and capacity by division information is listed on the front of the indicator face. Additionally, this information, along with the class and serial number, is on a plate riveted to the back of the indicator.

Sealing: The calibration switch is located inside the indicator. To access the switch, release the latch that will open the indicator. The covers to the switch are located on the left side and are sealable with a wire security seal.

Test Conditions: This Certificate supersedes Certificate of Conformance Number 96-102 and is issued to include a larger base and an optional attached journal printer. The 300-lb and 60-lb capacity scales were submitted for testing. The 300-lb version of the Model DP-6100GP was tested with an attached journal printer. Emphasis of the evaluation for the 300-lb version was on device design, printer operation and performance of the larger base. Several increasing/decreasing load and shift tests were conducted. Additionally, the scale and printer were evaluated for motion detection, print format, and other error indications such as over capacity, below zero and power interruptions. The 60-lb version was evaluated for compliance with influence factors and permanence requirements. The scale was tested over a temperature range of -5 °C to 40 °C (23 °F to 104 °F). A load of approximately one-half scale capacity was applied over 100 000 times. Increasing/decreasing load and shift tests were conducted periodically during this time. The previous test conditions are listed below for reference.

Certificate of Conformance Number 96-102: The 300-lb version of the Model DP-6100GP was submitted for testing. The emphasis of the evaluation was on device design and compliance with influence factor and permanence requirements. The scale was tested over a temperature range of -5 °C to 40 °C (23 °F to 104 °F). Tests were conducted with power supplies of 100 VAC and 130 VAC and 6.8 VDC and 11 VDC. A load of approximately one-half scale capacity was applied over 100 000 times. Increasing/decreasing load and shift tests were conducted periodically during this time. Additionally, the scale was evaluated for motion detection and other error indications such as over capacity, below zero and power interruptions.

The results of the evaluations indicate the devices comply with the applicable requirements of NIST Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 1998 Edition

Tested By: Norman Ingram (CA)