

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

For:

Non-Computing Scale
 Load Cell, Electronic
 Models: PPC-100, PPC-101, PPC-200, & PPC-200W
 n_{max} : 2000
 Capacity: 2 lb to 50 lb, 1 kg to 20 kg;
 40 oz to 800 oz (See Below)
 Platform: PPC-100 and PPC 101: 7.5" x 8.7"
 PPC-200 and PPC-200W: 9" x 9"
 Accuracy Class: III

Submitted by:

Yamato Corporation
 1775 S. Murray Blvd.
 Colorado Springs, CO 80916
 Tel: (719) 591-1500
 Fax: (719) 591-1045
 Contact: Larry Goodbar
 Web Site: www.yamatocorp.com

Standard Features and Options

Model	Capacity (lb)	Capacity (oz)	Capacity (kg)	Temperature Range
PPC-100	2 x 0.002	40 x 0.05	1 x 0.001	- 5 °C to 35 °C
PPC-101/200(W)	4 x 0.002	80 x 0.05	2 x 0.001	-10 °C to 40 °C
PPC-100	5 x 0.005	80 x 0.1	2 x 0.002	- 5 °C to 35 °C
PPC-101/200(W)	10 x 0.005	160 x 0.1	4 x 0.002	-10 °C to 40 °C
PPC-100	10 x 0.01	160 x 0.2	5 x 0.005	- 5 °C to 35 °C
PPC-200(W)	20 x 0.01	320 x 0.2	10 x 0.005	-10 °C to 40 °C
PPC-200(W)	40 x 0.02	800 x 0.5	20 x 0.01	-10 °C to 40 °C
PPC-200 (W)	50 x 0.05		20 x 0.02	-10 °C to 40 °C

Over/under indicator
 External unit conversion lb/kg/oz
 Semi-automatic (push-button) zero setting mechanism
 Automatic zero setting mechanism (AZSM)
 Initial zero setting mechanism (IZSM)
 Semi-automatic (push-button) tare
 AC/DC adapter
 Liquid crystal display
 Gross/net display
 Battery power supply
 Battery saving feature (auto shut-off)
 Model PPC-200W indicates a washdown enclosure

Options: Over/under meter AC adapter RS-232 communication port

Model PPC-100 Load Cells: LPS (2 kg, 3 kg, 7 kg capacities)
 Model PPC-200(W) Load Cells: Yamato UH56 (3 kg, 5 kg, 7 kg, 15 kg 35 kg capacities)

Temperature Range: -10 °C to 40 °C (14 °F 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.



Dennis E. Ehrhart
 Chairman, NCWM, Inc.



Ross J. Andersen
 Chairman, National Type Evaluation Program Committee

Issued Date: November 17, 2003

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.

Yamato Corporation
Non-Computing Scale
Models: PPC-100, PPC-101, PPC-200, and PPC 200W

Application: General purpose weighing and portion control device.

Identification: The required information is on a metallic sticker attached to the right side of the scale.

Sealing: The device can be sealed by threading a wire security seal through two flat head screws in the bottom of the scale housing.

Test Conditions: Certificate of Conformance Number 98-125A4: This Certificate supersedes Certificate of Conformance Number 98-125A3 and is issued to add a new CPU board to the device to allow calibration in either pound or metric units, to add the RS-232 communication port as an option and to include an additional capacity to the PPC-200/200W Model of the family. The Model PPC-200W (50 lb x 0.05 lb) scale was submitted for evaluation. Several increasing/decreasing load and shift tests were conducted. The device was calibrated using pound weights and the RS-232 using a printer and a computer was also evaluated. No additional testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 98-125A3: This Certificate supersedes Certificate of Conformance Number 98-125A2 and was issued without additional testing to reactivate Certificate of Conformance Number 98-125A2 without lapse. Changes were also made to update the contact information.

Certificate of Conformance Number 98-125A2: This Certificate supersedes Certificate of Conformance Number 98-125A1 and is issued to include additional models and capacities into the family. A Model PPC-200W (800 oz x 0.5 oz, 40 lb x .02 lb, and 20 kg x 0.01 kg capacities) scale was submitted for evaluation. Several increasing/decreasing load and shift tests were conducted. The device was 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 the scale more than 100 000 times. The scale was tested periodically during this time.

Certificate of Conformance Number 98-125A1: The emphasis of the evaluation was on the device design, marking, performance, and compliance with influence factor requirements. The Model PPC-200W (4 lb x 0.002 lb and 40 lb x 0.02 lb capacities) scales were submitted for evaluation. Several increasing/decreasing load and shift tests were conducted. The devices 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 more than 100 000 times. The scales were tested periodically during this time. Additionally, tests were conducted using 100 VAC/130 VAC and 6 VDC/10 VDC.

Certificate of Conformance Number 98-125: The emphasis of the evaluation was on the device design, operation, marking, performance, and compliance with influence factor requirements. The Models PPC-100 (2 lb and 10 lb capacities) scales were submitted for evaluation. Several increasing/decreasing load and shift tests were conducted. The device was tested over a temperature range of -5 °C to 35 °C (23 °F to 95 °F). A load of approximately one-half capacity was applied to each scale more than 100 800 times. The scales were tested periodically during this time. Additionally, tests were conducted using 100 VAC/130 VAC and 6 VDC/10 DC

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

Type Evaluation Criteria Used: NIST Handbook 44, 2003 Edition; NCWM Publication 14, 2003 Edition

Tested By: A. McCoy (OH) 98-125A4; A. McCoy (OH), W. West (OH) and D. Wright (OH) 98-125; E. Matthews (OH) & W. West (OH) 98-125A21; E. Matthews (OH) & W. West (OH) 98-125A2

Information Reviewed By: L. Bernetich (NCWM) and S. Patoray (NCWM) 98-125A3, 98-125A4