

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

For:

Weighing/Load Receiving Element
Digital Electronic
Model: K-Series
 n_{\max} : 32 000 (Class II; 10 000 (Class III)
 e_{\min} : 0.001 kg (0.002 lb)
Capacity: See Page 2
Platform Size: See Page 2

Accuracy Class: II/III

Submitted by:

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Standard Features and Options

Automatic zero setting mechanism (AZSM)
Initial zero setting mechanism (IZSM)
Stainless steel construction
*Semi-automatic (push-button) zero setting mechanism
*Keyboard tare
*Semi-automatic (push-button) tare
*Programmable tare
*Unit switching
*Multiple tare memories
*Preset tare

* These features are accessed when interfaced to an approved and compatible indicating element.

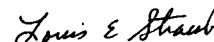
Load cell: Mettler-Toledo "Monoblock". Monoblock Type PikBrick 32 or Type Tbrick 32 is used on the KA32 platform. Monoblock Type PikBrick 15 or Type Tbrick 15 is used on all of the other K Series platforms.
Non-NTEP

Temperature Range: Class III: -10 °C to 40 °C (14 °F to 104 °F)
Class II: 0 °C to 40 °C (32 °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.



Ross J. Andersen
Chairman, NCWM, Inc.



Louis E. Straub
Chairman, National Type Evaluation Program Committee

Issue date: December 27, 2002

Mettler-Toledo, Inc
Weighing/Load Receiving Element
Model: K Series

Model	Single or Multi-Interval	Max Capacity	e_{min}	d (kg)	Class	Platform Size (mm)
KA15	Single	15 kg	0.001 kg	0.0001	II	280 x 350
KA15	Single	15 kg 30 lb	0.001 kg 0.002 lb		III	280 x 350
KA15	Multi	3, 6, 15 kg	0.001, 0.002, 0.005 kg		III	280 x 350
KA15	Multi	6, 15, 30 lb	0.002, 0.005, 0.01 lb		III	280 x 350
KA32	Single	32 kg	0.001 kg	0.0001	II	280 x 350
KA32	Single	32 kg 70 lb	0.001 kg 0.002 lb		III	280 x 350
KA32	Multi	6, 15, 32 kg	0.001, 0.002, 0.005 kg		III	280 x 350
KA32	Multi	12, 30, 70 lb	0.002, 0.005, 0.01 lb		III	280 x 350
KB60.2	Single	60 kg 120 lb	0.01 kg 0.02 lb		III	400 x 500
KB60.2	Single	60 kg	0.01 kg	0.001	II	400 x 500
KB60.2	Multi	15, 30, 60 kg	0.005, 0.01, 0.02 kg		III	400 x 500
KB60.2	Multi	30, 60, 120 lb	0.01, 0.02, 0.05 lb		III	400 x 500
KCC150	Single	150 kg	0.01 kg	0.001	II	600 x 800
KCC150	Single	150 kg 300 lb	0.02 kg 0.05 lb		III	600 x 800
KCC150	Multi	30, 60, 150 kg	0.01, 0.02, 0.05 kg		III	600 x 800
KCC150	Multi	60, 150, 300 lb	0.02, 0.05, 0.1 lb		III	600 x 800
KC600	Single	600 kg	0.1 kg	0.01	II	800 x 1000
KCS600	Single	600 kg	0.1 kg	0.01	II	800 x 800
K_300	Single	300 kg 600 lb	0.05 kg 0.1 lb		III	See Note 2 Below
K_300	Multi	60, 150, 300 kg	0.02, 0.05, 0.1 kg		III	"
K_300	Multi	150, 300, 600 lb	0.05, 0.1, 0.2 lb		III	"
K_600	Single	600 kg 1200 lb	0.1 kg 0.2 lb		III	"
K_600	Multi	150, 300, 600 kg	0.05, 0.1, 0.2 kg		III	"
K_600	Multi	300, 600, 1200 lb	0.1, 0.2, 0.5 lb		III	"

Note 1. Temperature Ranges:

All Class II devices have a temperature range of 0 °C to 40 °C
All Class III devices have a temperature range of -10 °C to 40 °C

Note 2. Platter Sizes:

KCS300: 800 x 800 mm
KCC300: 600 x 800 mm
KC300: 800 x 1000 mm
KD600: 1000 x 1250 mm

Mettler-Toledo, Inc
Weighing/Load Receiving Element
Model: K Series

Application: General purpose weighing device when interfaced with an NTEP approved and compatible indicating element.

Identification: An identification plate with the required markings is riveted on the side of the scale base.

Sealing: Sealing of the device is not required since the calibration and configuration of the device is done by the indicating element.

Test Conditions: This Certificate of Conformance supercedes certificate number 00-075 and is issued to note the addition of the Monoblock Type Tbrick load cell as an option. For the purpose of this evaluation, a model KA-32, 32 x 0.001 kg device was submitted for evaluation. Several increasing/decreasing load tests and shift tests were performed. Based on this testing and information supplied by the manufacturer, no further testing was deemed necessary.

Certificate of Conformance 00-075: The emphasis of the evaluation was on the device design, operation, markings, and influence factor requirements. For the purpose of this evaluation three devices were submitted: Model KA15 (15 kg x 0.001 kg), Model KA32 (32 kg x 0.001 kg), and Model KC600 (600 kg x 0.1 kg). Several increasing/decreasing load and shift tests were performed. Also, power variation tests of 100 VAC to 130 VAC were conducted. The devices were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load approximately one-half capacity was applied to the device over 100 000 times. The scales were tested periodically during this time.

The results of the evaluation and information provided by the manufacturer indicate the devices comply with applicable requirements of NIST Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 2000 Edition

Tested By: A. McCoy (OH) 00-075, W. West (OH) 00-075A1

Reviewed By: S. Patoray (NCWM), L. Bernetich 00-075A1