



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Load Cell Electronic
Model: DxRQy, DxRTy, DxWQy, DxWTy
 n_{max} : 6250
 e_{min} : 0.0005 kg (0.01 lb)
Capacity: 2.5 kg (5 lb) to 500 kg (1000 lb)
Platform: See table page 2
Accuracy Class: III

Submitted By:

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Standard Features and Options

Model designation: D = Defender family, x = capacity in kg, R = painted carbon steel frame, W = stainless steel frame, Q = square platform, T = rectangular platform, y = S, R, L, V, X platform size

Load Cells Used: (One center mounted load cell)

- D12RQR, D12RTR: Mettler Toledo model 0785 (22 kg), non-NTEP
- D25RQR, D25RTR: Mettler Toledo model 0785 (50 kg), non-NTEP
- D50RQR, D50RTR: Mettler Toledo model 0785 (100 kg), non-NTEP
- D50RQL: Mettler Toledo model 0795 (100 kg), non-NTEP
- D125RQL: Mettler Toledo model 0795 (200 kg), non-NTEP
- D50RQV, D50RTX: Mettler Toledo model 0805 (100 kg), non-NTEP
- D125RQV, D125RTX, D125RTV: Mettler Toledo model 0805 (250 kg), non-NTEP
- D250RQV, D250RTX, D250RTV: Mettler Toledo model 0805 (500 kg), non-NTEP
- D500RQV, D500RTV, D500WQV: Mettler Toledo model 0805 (750 kg), non-NTEP
- D2WQS: Mettler Toledo model SLP530 (6 kg), NTEP Certificate 17-069
- D5WQS: Mettler Toledo model SLP530 (10 kg), NTEP Certificate 17-069
- D12WQS: Mettler Toledo model SLP530 (30 kg), NTEP Certificate 17-069
- D12WQR: Mettler Toledo model SLP532 (30 kg), NTEP Certificate 17-069
- D25WQR, D25WQL: Mettler Toledo model SLP532 (50 kg), NTEP Certificate 17-069
- D50WQR, D50WQL: Mettler Toledo model SLP532 (100 kg), NTEP Certificate 17-069
- D125WQL: Mettler Toledo model SLP532 (200 kg), NTEP Certificate 17-069
- D50WQV, D50WTX: Mettler Toledo model SLP533 (150 kg), NTEP Certificate 17-069
- D125WQV, D125WTX: Mettler Toledo model SLP533 (300 kg), NTEP Certificate 17-069
- D250WQV, D250WTX: Mettler Toledo model SLP533 (500 kg), NTEP Certificate 17-069

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.


Brett Gurney
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Committee Chair, National Type Evaluation Program Committee
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Weighing/Load Receiving Element / DxRQy, DxRTy, DxWQy, DxWTy

Models:

Model	Capacity	e_{min}	n_{max}	Platform size
D2WQS	2.5 kg (5 lb)	0.0005 kg (0.001 lb)	5000	254 x 254 mm (10 x 10 in)
D5WQS	5 kg (10 lb)	0.001 kg (0.002 lb)	5000	254 x 254 mm (10 x 10 in)
D12RQR	12.5 kg (25 lb)	0.002 kg (0.005 lb)	6250	305 x 305 mm (12 x 12 in)
D12RTR	12.5 kg (25 lb)	0.002 kg (0.005 lb)	6250	305 x 355 mm (12 x 14 in)
D12WQR	12.5 kg (25 lb)	0.005 kg (0.005 lb)	5000	305 x 305 mm (12 x 12 in)
D12WQS	12.5 kg (25 lb)	0.005 kg (0.005 lb)	5000	254 x 254 mm (10 x 10 in)
D25RQR	25 kg (50 lb)	0.005 kg (0.01 lb)	5000	305 x 305 mm (12 x 12 in)
D25RTR	25 kg (50 lb)	0.005 kg (0.01 lb)	5000	305 x 355 mm (12 x 14 in)
D25WQL	25 kg (50 lb)	0.005 kg (0.01 lb)	5000	457 x 457 mm (18 x 18 in)
D25WQR	25 kg (50 lb)	0.005 kg (0.01 lb)	5000	305 x 305 mm (12 x 12 in)
D50RQL	50 kg (100 lb)	0.01 kg (0.02 lb)	5000	457 x 457 mm (18 x 18 in)
D50RQR	50 kg (100 lb)	0.01 kg (0.02 lb)	5000	305 x 305 mm (12 x 12 in)
D50RQV	50 kg (100 lb)	0.01 kg (0.02 lb)	5000	610 x 610 mm (24 x 24 in)
D50RTR	50 kg (100 lb)	0.01 kg (0.02 lb)	5000	305 x 355 mm (12 x 14 in)
D50RTX	50 kg (100 lb)	0.01 kg (0.02 lb)	5000	457 x 610 mm (18 x 24 in)
D50WQL	50 kg (100 lb)	0.01 kg (0.02 lb)	5000	457 x 457 mm (18 x 18 in)
D50WQR	50 kg (100 lb)	0.01 kg (0.02 lb)	5000	305 x 305 mm (12 x 12 in)
D50WQV	50 kg (100 lb)	0.01 kg (0.02 lb)	5000	610 x 610 mm (24 x 24 in)
D50WTX	50 kg (100 lb)	0.01 kg (0.02 lb)	5000	457 x 610 mm (18 x 24 in)
D125RQL	125 kg (250 lb)	0.02 kg (0.05 lb)	6250	457 x 457 mm (18 x 18 in)
D125RQV	125 kg (250 lb)	0.02 kg (0.05 lb)	6250	610 x 610 mm (24 x 24 in)
D125RTV	125 kg (250 lb)	0.02 kg (0.05 lb)	6250	600 x 800 mm (23.6 x 31.5 in)
D125RTX	125 kg (250 lb)	0.02 kg (0.05 lb)	6250	457 x 610 mm (18 x 24 in)
D125WQL	125 kg (250 lb)	0.05 kg (0.05 lb)	5000	457 x 457 mm (18 x 18 in)
D125WQV	125 kg (250 lb)	0.05 kg (0.05 lb)	5000	610 x 610 mm (24 x 24 in)
D125WTX	125 kg (250 lb)	0.05 kg (0.05 lb)	5000	457 x 610 mm (18 x 24 in)
D250RQV	250 kg (500 lb)	0.05 kg (0.1 lb)	5000	610 x 610 mm (24 x 24 in)
D250RTV	250 kg (500 lb)	0.05 kg (0.1 lb)	5000	600 x 800 mm (23.6 x 31.5 in)
D250RTX	250 kg (500 lb)	0.05 kg (0.1 lb)	5000	457 x 610 mm (18 x 24 in)
D250WQV	250 kg (500 lb)	0.05 kg (0.1 lb)	5000	610 x 610 mm (24 x 24 in)
D250WTX	250 kg (500 lb)	0.05 kg (0.1 lb)	5000	457 x 610 mm (18 x 24 in)
D500RQV	500 kg (1000 lb)	0.1 kg (0.2 lb)	5000	610 x 610 mm (24 x 24 in)
D500RTV	500 kg (1000 lb)	0.1 kg (0.2 lb)	5000	600 x 800 mm (23.6 x 31.5 in)
D500WQV	500 kg (1000 lb)	0.1 kg (0.2 lb)	5000	610 x 610 mm (24 x 24 in)

Application: For use in general purpose weighing applications when interfaced with an NTEP Certified and compatible indicating element.

Identification: The required information is on a tamper evident foil label affixed to the frame of the scale under the platter.

Sealing: The load receiving element has no metrological functions that require the use of a security seal. Calibration and configuration of the scale are done through the indicator and sealed according to the manufacturer's instructions for the indicator used.



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Weighing/Load Receiving Element / DxRQy, DxRTy, DxWQy, DxWTy

Test Conditions: The emphasis of the evaluation was on the device design, operation, performance, markings and compliance with influence factors. The following six Ohaus weighing load receiving elements were submitted for evaluation. The D2WQS 2.5 kg, D25WQL 25 kg, D125RQL 125 kg, D250WQV 250 kg, D250RTV 250 kg, D500RTV 500 kg were interfaced with a Ohaus TD52P indicator (Certificate of Conformance Number 18-065). Multiple increasing/decreasing tests and shift tests were performed in kilogram and in pound to verify conformance. A discrimination, eccentricity and suitability of level indicator test was performed. The devices were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Permanence testing was performed with a load of approximately one-half capacity and was applied to the six models of weighing load receiving elements over 100 000 times. The weighing load receiving elements were tested periodically during this period. The eccentricity and discrimination tests were repeated after the conclusion of the permanence test.

Evaluated By: J. Gibson (OH)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2018 Edition. *NCWM Publication 14 Weighing Devices*, 2018 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)

Example of Device:

