

Scale Test Certificate



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Test Number: Line 1 Feeder 9 S100 Date: Monday, March 04, 2019

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Feeder K2MLS100 LARGE
 Scale Range: 600.0 kg Span: 0.99602 SFT Configuration: -123-----D
 SFT: 1 2 3
 S/N: 11150788 11450428 11450436
 S/W: S9700-20080-W S9700-20080-W S9700-20080-W

Friction Test

Sample weight range: 1500 g to 3000 g
 Number of samples: 3 Tared net weight at test start: -0.003734 g

Sample	Weight applied	Weight removed	Removed-Tared
#1	4926.821 g	-1.200199 g	-1.196465 %
#2	4926.401 g	-5.669117 g	-5.665383 %
#3	4923.957 g	-6.508112 g	-6.504378 %

	Absolute	Relative	Tolerance	Test result
Friction Error	6.504378 g	0.001084 %	0.005 %	Passed

Commented [JVL1]: Friction test checks to see if the scale can accurately return to zero after a small weight has been applied and removed from the scale.

Linearity Test

Standard weight: 10 kg
 Number of samples: 6

Sample	Applied	Deviation	Removed	Deviation	Optional Weight ID
#6	60.01854 kg	0.003091 %			
#5	50.00541 kg	0.000901 %	50.02734 kg	0.004556 %	
#4	40.00353 kg	0.000588 %	40.03068 kg	0.005113 %	
#3	29.99914 kg	-0.000143 %	30.03375 kg	0.005625 %	
#2	20.00061 kg	0.000102 %	20.04814 kg	0.008024 %	
#1	9.999743 kg	-0.000043 %	10.05224 kg	0.008707 %	
none	0.000870 kg	0.000145 %	0.058105 kg	0.009684 %	-

	Absolute	Relative	Tolerance	Test result
Linearity Error	0.053102 kg	0.008850 %	0.030 %	Passed
Zero Pt. Ret. Error	0.057235 kg	0.009539 %	0.025 %	Passed
Span Deviation	-0.003978	-0.397778 %	5.000 %	Passed

Commented [JVL2]: Linearity test checks the dynamic weighing ability of the scale. Up to 6 equal weights can be used to test the linearity. Weights are stacked in succession then removed while the test is running. This provides a more accurate picture of the scale's performance versus placing one weight on the scale and recording the new net weight. K-Sampler also changes the span based on a best fit algorithm from the data it has collected.

Creep Test

Test weight range: 18.0 kg to 36.0 kg
 Test duration: 300 s

Start	Weight sample	End	Weight sample	Deviation
15:19:33	19.99099 kg	15:24:39	20.01897 kg	0.027979 kg

	Absolute	Relative	Tolerance	Test result
Creep Error	0.027979 kg	0.004663 %	0.020 %	Passed

Commented [JVL3]: Creep test is a static test done to guarantee the scale reading does not increase. A weight is applied to the scale, a 5 minute timer starts. The beginning weight and ending weight are compared to prove the scale is within factory specifications.

Commented [JVL4R3]: