

LW LOAD WASHER (U.S. & METRIC)

FEATURES & BENEFITS

- Capacities from 5 to 40k lbf (0.02 to 178 N)
- Wide selection of OD, ID, and height (as low as 0.25 in or 6.4 mm) combinations
- Stainless steel construction

SPECIFICATIONS

PARAMETERS		MODEL	
		LW10xx LW12xx	LW15xx LW20xx LW25xx LW30xx LW31xx LW40xx LW45xx
ACCURACY – (MAX ERROR)			
Combined Error – %FS		±1.0	±0.5
TEMPERATURE			
Compensated Range	°F	+60 to +160	
	°C	+16 to +71	
Operating Range	°F	-65 to +250	
	°C	-54 to +121	
Effect On Zero – %RO / deg	°F	±0.005	
	°C	±0.009	
ELECTRICAL			
Rated Output – mV/V (Nominal)		2.00	
Bridge Resistance – Ohm (Nominal)		350	
Excitation Voltage – VDC MAX		15	
MECHANICAL			
Safe Overload – % of RO		150	
Deflection @ R.O.	in	0.003	
	mm	0.08	
Material		Stainless steel	

*Height is 0.37" for 5 lb thru 100 lb. Height is 0.63" for 250 lb thru 10k lb.
**Height is 1.00" for 1k thru 40k lb.

STANDARD CONFIGURATION



Model LW (Shown)

OPTIONS

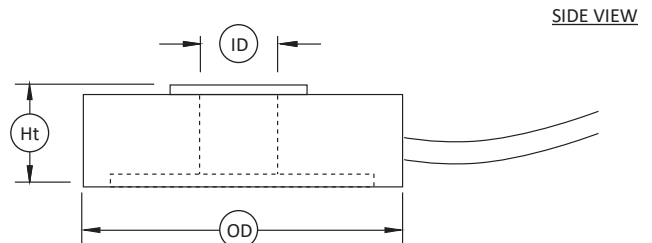
- Cable length
- Add connector to cable
- Transducer Electronic Data Sheet (TEDS)
- Custom calibration accessories

ACCESSORIES

- Instrumentation

CONNECTOR OPTIONS

- 5 ft (1.5 m) integral cable (LW)



DIMENSIONS

MODEL LW	OD		ID		HEIGHT		CAPACITY	
	in	mm	in	mm	in	mm	U.S. (lbf)	Metric (N)
1010	1.00	25.4	0.100	2.54	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1012	1.00	25.4	0.125	3.18	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1019	1.00	25.4	0.188	4.78	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1020	1.00	25.4	0.200	5.08	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1025	1.00	25.4	0.250	6.35	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1210	1.25	31.75	0.100	2.54	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1212	1.25	31.75	0.125	3.18	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1219	1.25	31.75	0.188	4.78	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1220	1.25	31.75	0.200	5.08	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1225	1.25	31.75	0.250	6.35	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1231	1.25	31.75	0.312	7.92	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1238	1.25	31.75	0.375	9.53	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1510	1.50	38.1	0.100	2.54	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2

U.S. dimensions and capacities are provided for conversion only. Standard products have International System of Units (SI) capacities and dimensions.

LW LOAD WASHER (U.S. & METRIC)

DIMENSIONS (CONTINUED)

MODEL LW	OD		ID		HEIGHT		CAPACITY	
	in	mm	in	mm	in	mm	U.S. (lbf)	Metric (N)
1513	1.50	38.1	0.125	3.18	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1520	1.50	38.1	0.200	5.08	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1525	1.50	38.1	0.250	6.35	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1531	1.50	38.1	0.312	7.92	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1538	1.50	38.1	0.375	9.53	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1550	1.50	38.1	0.500	12.70	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
2013	2.00	50.8	0.125	3.18	*		5, 10, 25, 50, 250, 500, 1K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45
2019	2.00	50.8	0.188	4.78	*		5, 10, 25, 50, 250, 500, 1K, 2K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90
2025	2.00	50.8	0.250	6.35	*		5, 10, 25, 50, 250, 500, 1K, 2K, 3K, 5K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
2038	2.00	50.8	0.375	9.53	*		5, 10, 25, 50, 250, 500, 1K, 2K, 3K, 5K, 7.5K, 10K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2, 33.4, 44.5
2050	2.00	50.8	0.500	12.70	*		5, 10, 25, 50, 250, 500, 1K, 2K, 3K, 5K, 7.5K, 10K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2, 33.4, 44.5
2063	2.00	50.8	0.625	15.88	*		5, 10, 25, 50, 250, 500, 1K, 2K, 3K, 5K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
2075	2.00	50.8	0.750	19.05	*		250, 500, 1K, 2K, 3K, 5K	1.11, 2.22, 4.45, 8.90, 22.2
2088	2.00	50.8	0.875	22.23	*		250, 500, 1K, 2K, 3K	1.11, 2.22, 4.45, 8.90, 13.3
20100	2.00	50.8	1.000	25.40	*		500, 1K, 2K	2.22, 4.45, 8.90
2525	2.50	63.5	0.250	6.35	1.00	25.4	1K, 2K, 3K	4.45, 8.90, 13.3
2538	2.50	63.5	0.375	9.53	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
2550	2.50	63.5	0.500	12.70	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178
2563	2.50	63.5	0.625	15.88	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178
2575	2.50	63.5	0.750	19.05	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178
2588	2.50	63.5	0.875	22.23	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178
2594	2.50	63.5	0.938	23.83	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178
25100	2.50	63.5	1.000	25.40	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178
25113	2.50	63.5	1.130	28.70	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
25125	2.50	63.5	1.250	31.75	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
25138	2.50	63.5	1.380	35.05	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
25150	2.50	63.5	1.500	38.10	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
3025	3.00	76.2	0.250	6.35	1.00	25.4	1K, 2K, 3K	4.45, 8.90, 13.3
3038	3.00	76.2	0.375	9.53	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
3050	3.00	76.2	0.500	12.70	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133
3063	3.00	76.2	0.625	15.88	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133
3075	3.00	76.2	0.750	19.05	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89
3088	3.00	76.2	0.875	22.23	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89
3094	3.00	76.2	0.938	23.83	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89
30100	3.00	76.2	1.000	25.40	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89
30113	3.00	76.2	1.130	28.70	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
30125	3.00	76.2	1.250	31.75	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
30138	3.00	76.2	1.380	35.05	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
30150	3.00	76.2	1.500	38.10	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
31200	3.13	79.5	2.000	50.80	0.50	12.7	1K, 3K, 5K	4.45, 13.3, 22.2
31213	3.13	79.5	2.130	54.10	0.50	12.7	1K, 3K, 5K	4.45, 13.3, 22.2
40200	4.00	101.6	2.00	50.8	**		1K, 3K, 5K, 10K	4.45, 13.3, 22.2, 44.5
40213	4.00	101.6	2.130	54.10	**		1K, 3K, 5K, 10K	4.45, 13.3, 22.2, 44.5
45300	4.50	114.3	3.000	76.20	1.25	31.8	1K, 3K, 5K, 10K	4.45, 13.3, 22.2, 44.5
45313	4.50	114.3	3.130	79.50	1.25	31.8	1K, 3K, 5K, 10K	4.45, 13.3, 22.2, 44.5

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