## S.A. Meier Co. of Milwaukee, Inc. Quality Sales and Service Since 1932 S.A. Meier Co. of Milwaukee, Inc.

## S. A. Meier Co. of Milwaukee, Inc.

230 James Street, A-1 / Wales, WI 53183 Tel: 262 968-4950 / 800 657-0798 Fax: 262 968-4970 /Email: sales@samco-inc.com



Supplier of Quality Force Measuring & Weighing Equipment Since 1932

## **Application Note**

7/6/09 By: KRD

## Load Cell Resolution of Lloyd XLC Load Cells

The following is a table of resolutions for various values of load cell.

Lloyd systems have an accuracy of  $\pm$ 0.5% of reading between 2% and 100% of the load cell capacity and  $\pm$ 1.0% of reading below 2% down to 1% of load cell capacity.

Generally, the best results are obtained when the load cell is sized between 10% and 90% of expected maximum load so that results with good accuracy and resolution are obtained and there risk of accidental overload in minimized.

Loadcell Value	Scale Intervals	Specified Load Range For Grade 0.5
10N	0.0004N	0.2N to 10N
	0.00009 lbf	0.04 lbf to 2 lbf
20N	0.0002N	0.4N to 20N, 0.1 lbf to 4.5 lbf
50N	0.0004 lbf	1N to 50N 0.2 lbf to 10 lbf
100N	0.004N	2N to 100N
	0.0009 lbf	0.4 lbf to 20 lbf
500N	0.02N	10N to 500N
	0.004 lbf	2 lbf to 100 lbf
1000N	0.04N	20N to 1000N
	0.009 lbf	4 lbf to 200 lbf
2500N	0.1N	50N to 2500N
	0.02 lbf	10 lbf to 500 lbf
5kN	0.2N	100N to 500N
	0.04 lbf	20 lbf to 1000 lbf
10kN	0.4N	200N to 10kN
	0.09 lbf	40 lbf to 2000 lbf
30kN	1N	600N to 30kN
	0.3 lbf	120 lbf to 6000 lbf
50kN	2N	1000N to 50kN
	0.4 lbf	200 lbf to 10,000 lbf

We Stock, Service & Calibrate What We Sell