

MOREHOUSE DIRECT READING LOAD CELL SYSTEM

Morehouse Direct Reading Load Cell Systems

FOR CALIBRATION OF LOAD CELLS, TESTING MACHINE AND OTHER FORCE SYSTEMS.



DIRECT READING ACCORDING TO ASTM-E74 WHEN USING A COMPUTER INTERFACE WITH MOREHOUSE INDICATOR AND MOREHOUSE CUSTOM SOFTWARE.

THE MOREHOUSE DIRECT READING SOFTWARE ELIMINATES THE NEED FOR LOAD TABLES. THIS SYSTEM WAS DESIGNED TO USE THE COEFFICIENTS FROM A CALIBRATION REPORT AND APPLY THEM TO THE "LIVE" SIGNAL OF THE INDICATOR.

SYSTEM 1 (PICTURED ABOVE LEFT) A MOREHOUSE 4215 INDICATOR WITH LIVE DISPLAY, A MOREHOUSE ULTRA PRECISION LOAD CELL AND A LAPTOP COMPUTER TO CONVERT THE mV/V READINGS TO ENGINEERING UNITS USING THE MOREHOUSE SOFTWARE.

SOME ADVANTAGES OF THIS SYSTEM ARE:

THE UNITS "AS RECEIVED" CALIBRATION IS THE SAME AS THE UNITS "AS RETURNED" CALIBRATION (THE SYSTEM IS SETUP SO THAT THE UNIT IS CALIBRATED IN mV/V. THEN WHEN THE LOAD CELL IS RECALIBRATED THE NEW CALIBRATION COEFFICIENTS ARE ENTERED USING THE CALIBRATION DATA SUPPLIED BY MOREHOUSE. THE DATA REPORT ISSUED IS ALWAYS IN mV/V)

THE SYSTEM IS A **TRUE DIRECT READING ACCORDING TO ASTM E74 DEVICE.** IT REQUIRES A LAPTOP COMPUTER AND USES COEFFICIENTS FROM ASTM E74 CALIBRATIONS TO GENERATE THE VALUE FOR THE LOAD BEING APPLIED. THE END USER CAN READ DIRECT ENGINEERING UNITS IN LBF, KGF, kN and NEWTONS

Morehouse Load Cells



Morehouse load cells are available in different models. With uncertainties as low as .005% (Ultra Precision Model) to 110,000 LBF or equivalent in kN, KGF. ASTM-E74 class A lower limits from 2% of capacity or better and class AA from 10% of capacity or better. The Morehouse Precision grade calibration standard has guaranteed uncertainties of .01% or better and Class A lower limits of 4% or better of capacity. Our general purpose Calibration grade load cells are guaranteed to have uncertainties of .02% or better and ASTM E74 class A lower limits of better than 8% in Tension and Compression. All Morehouse Load Cells above 110,000 capacity are column load cells that will have uncertainties of .025% or better. (pictured left a Morehouse Ultra Precision Shear Web Type Load Cell)

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Force Calibration By Us in Our Lab. Force Measurement By You With Our Products. Directly Traceable to N.I.S.T.