

Density Balances

The Fann Model 140 Mud Balance provides a simple, practical method for the accurate determination of fluid density. It is one of the most sensitive and accurate field instruments available for determining the density or weight-per-unit-volume (specific gravity) of drilling fluids. An outstanding advantage of this Mud Balance is that the temperature of the sample does not materially affect the accuracy of readings. The Mud Balance is constructed with an easy to read beam which is graduated into four scales: pounds per gallon, specific gravity, pounds per cubic foot, and pounds per square inch per 1,000 feet of depth.



Mud Balance Model 140

The volume of space occupied by entrapped gas or air bubbles in a sample fluid may distort the accuracy of the fluid density measurement. This distortion can be significantly reduced by pressurizing the fluid. The density of a fluid containing entrained air or gas can be determined more accurately by using a pressurized fluid density balance.



Tru-Wate Pressurized Balance Model 141

The TRU-WATE Balance is an instrument for measuring the absolute density of a fluid sample. With the TRU-WATE Balance, the density of a fluid sample, such as cement slurry, can be measured in a fixed volume sample under pressure. By pressurizing the sample cup the entrained air or gas can be decreased to a negligible volume, thus providing a slurry density measurement more closely in agreement with the true density which will be realized under down-hole conditions.



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Density balances meet all the requirements of the API standard procedures for testing water base drilling fluids, oil base drilling fluids and oil well cements.

Model 140 Measuring Range

lb/gal	6-24
lb/sq in/1000ft of depth	310-1250
lb/cu ft	45-180
gms/cm ³ (Specific Gravity)	0.72-2.88

Model 141 Measuring Range

lb/gal	7-22
lb/sq in/1000ft of depth	350-1150
lb/cu ft	50-165
gms/cm ³ (Specific Gravity)	0.75-2.60

Fann density balances are constructed of premium metals for durability, accuracy and ease of use. A high-impact plastic case protects the balance during transport and provides a secure base in its working position.