

**PRODUCT INFORMATION****“TARE” OPTION**

The Series 9 “Tare” option is used to remove an existing pressure reading from the display and establish this point as the new zero reference. This allows the user to ignore an existing pressure and monitor only the increase or decrease from the newly established zero point. Tare is often used in the following three applications:

- 1) When used with a load cell, a Series 9 can measure the weight of the contents of a holding tank. (This will require the unit to be scaled with the proper pressure-to-weight conversion factor, often supplied as a secondary engineering unit of the unit select option.) The tare button allows the user to “zero-out” the weight of the empty tank prior to filling. As the tank is being filled, the Series 9 will display the weight of the tank contents only.
- 2) Customers who would like to use an instrument in both gauge and absolute pressure applications can order a Series 9 absolute range instrument with the tare feature. The tare option will let the user “zero out” the existing barometric pressure reading, thereby simulating a gauge pressure reading. However, the following two guidelines must be observed:
  - a. Once the barometric reading has been “zeroed” the full-scale excursion of the instrument is limited to the full scale rating of the instrument minus 15 psi (or equivalent).
  - b. Unlike actual gauge pressure instruments, the zero reference point will shift with changes in ambient (barometric) pressure. Therefore, the unit can only be used in a gauge pressure application for short periods of time. Occasionally, the user should release the input pressure and re-tare the instrument in order to re-establish the zero point at the current ambient condition.
- 3) In leak test applications, the tare function can be used to monitor the “pressure lost” value. The user will simply pressurize the vessel under test, then activate the tare function. This will “zero” the display. As the pressure in the vessel decreases due to leakage, the indicator will begin to read in negative numbers, indicating the amount of pressure that has been lost relative to the point at which the tare function was activated.