To adjust K-Factor (calibration value) for
ME995-7 & ME3000 Batch Controllers,
FRT303 and ME5-T Indicator displays,
ME2008 Batch Safety Units

Example 1: when **actual amount is less** than the amount displayed

- current (old) K-factor (calibration value): 340
- actual amount dispensed in container : 190 Litres
- amount shown on display : 200 Litres

Then, to calculate new K-factor (calibration value):

$$\textbf{new K factor} = \left[\left(\frac{\textbf{Amount Displayed} - \textbf{Actual Dispensed}}{\textbf{Actual Dispensed}} \right) + 1 \right] \times \textbf{old K-Factor}$$

$$\textbf{new K factor} = \left[\left(\frac{\textbf{200 Litres} - \textbf{190 Litres}}{\textbf{190 Litres}} \right) + 1 \right] \times \textbf{340}$$

$$\textbf{new K factor} = \left[\left(0.053 \right) + 1 \right] \times \textbf{340} \quad = \quad \left[1.053 \right] \times \textbf{340} \quad = \underline{\textbf{358}}$$

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Example 2: when **actual amount is more** than the amount displayed

- current (old) K-factor (calibration value): 340
- actual amount dispensed in container : 220 Litres
- amount shown on display : 200 Litres

Then, to calculate new K-factor (calibration value):

$$\textbf{new K factor} = \left[\left(\frac{\textbf{Amount Displayed} - \textbf{Actual Dispensed}}{\textbf{Actual Dispensed}} \right) + 1 \right] \times \textbf{old K-Factor}$$

$$\textbf{new K factor} = \left[\left(\frac{\textbf{200 Litres} - \textbf{220 Litres}}{\textbf{220 Litres}} \right) + 1 \right] \times \textbf{340}$$

$$\textbf{new K factor} = \left[\left(-0.09 \right) + 1 \right] \times \textbf{340} = \left[0.91 \right] \times \textbf{340} = \textbf{309}$$