

Process Calibration Weight Scale

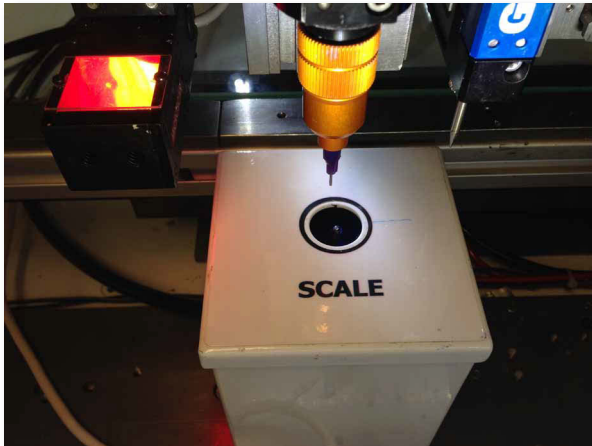
Mass Flow Calibration

Compensates for changes in material:

· Different lots · Time out of freezer · Long term pump wear

Process Calibration Weight Scale

Process Calibration Weight Scale (Mass Flow Calibration) is used to confirm the flow rate of a dispense pump. Based on results from a flow rate test, the system adjusts a dispensing parameter to achieve the desired flow rate. It is advisable to use the weight scale at the beginning of a process or at the beginning of the day – especially after changing from one fluid to another – to calibrate pump performance.



Some fluids change viscosity over time; therefore, we recommend performing a calibration at intervals suited to a particular fluid and its tendency to change.

The process calibration routine starts with the pump moving to the weight scale and dispensing into a disposable cup. The system reads the scale results and makes an adjustment to dispense parameters to bring the flow rate within user-defined tolerance.

For general calibration, the system adjusts dot dispenses by increasing the amount of time the pump remains on (open), but for lines and areas fills, the system adjusts pump speed so throughput remains unaffected.

Automatically calibrate flow rate for consistent pump performance while dispensing lines, fills, and large dots.

Process calibration is recommended for applications using lines, area fills, and large dots. A minimum weight of 0.010 g is recommended for proper calibration. During calibration, an in-tolerance window can be set up to notify an operator if an excessively large adjustment is required. Also, a maximum number of tries to achieve the desired flow rate may be set.

Process calibration is available on MAX Series and DS Series platforms, plus it is compatible with all GPD Global dispense pumps: Precision Auger, NCM5000 Jetting, and PCD Volumetric Series.

Process calibration data may be saved and recalled for offline analysis.

Watch our [Nozzle Alignment and Pump Flow Rate Calibration](#) video.

Scale Weight Kit

Our Verify & Adjust/Calibrate 4-Place Scale Weight Kit (PN 22213007) enables you to verify the actual weight of a weigh unit and, as needed, adjust/calibrate the weigh unit value used by the scale.



The touchscreen display terminal and its built-in, pre-programmed applications provide direct access to the scale. All display operations are external to the MAX Series/DS Series dispense system except for the power supplied to the display terminal.

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