

Control Mode Output – SIH: Basic, Count, Count +, Smart +

With 4-Series scales we have access to the “control mode” weight. Control mode is expanded weight. The control mode weight can be read over the communication port by using the special SICS command included in the 4-Series products. The command is SIH and the scale responds with the current weight in expanded mode regardless of stability.

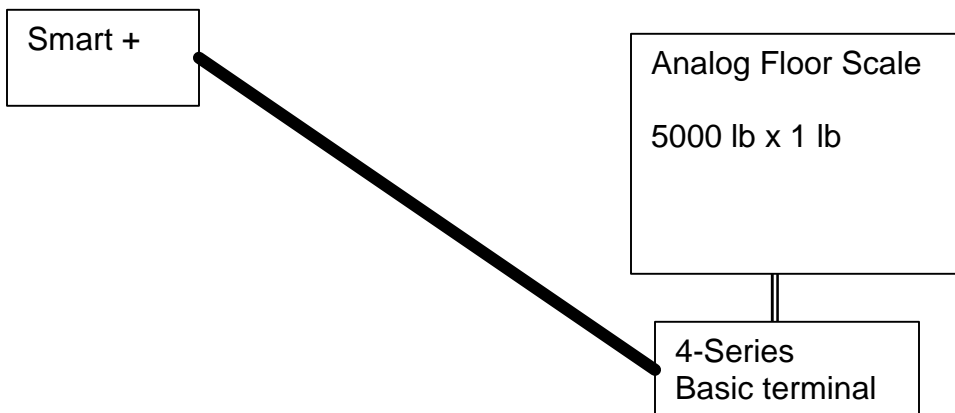
Here are some sample strings returned from the SICS commands, the scale used has a division size of 0.002 lb.

SI		[SICS command “Send Immediately” sent by the PC]
S S	2.002 lb	[Response from scale in normal display precision]
SIH		[SICS command “Send Immediately High Precision” sent by the PC]
H S	2.0011 lb	[Response from scale in high precision]

There is no SICS command for send high precision continuous.

Application example:

Customer uses a 4-Series counting scale (Count, Count + or Smart +) with second scale SICS. If the attached SICS second scale can accept the SIH command the 4-Series counting scale will use the high precision (control mode) weight instead of the display weight. For an SICS second scale used as a **reference (sample) scale** this means our sampling precision is expanded to the control mode. If the SICS second scale is used as a **bulk scale** then our count precision is based on the control mode precision. This is useful for higher count precision on a large scale like a floor scale. Let's look at an example.



If the average piece weight (APW) of the parts is 0.05 lb and the bulk scale division size is 1 lb, the bulk count will update by 20 pieces; 10,000, 10,020, 10,040 etc.

But since we have a 4-Series terminal as the second scale the bulk count will update using control mode weight, which in our example is 20 x or 0.05 lb. So now the bulk count will update by 1 piece; 10,000, 10,001, 10,002 etc. (If our APW is .01 lb the bulk count will update by 5 pieces instead of 100 pcs for displayed weight.)

Note: The SICS second scale feature has nothing to do with analog second scale option. The analog second scale option also uses control mode weight. The SICS second scale does not replace the analog second scale, it is a feature which can be used in the case where you want a terminal on the second scale.

END of demo.