

TR-1 WITH 99 FORMULAS (UP TO 4 INGREDIENTS)
(TA-0597-4ING-99FORM-DUMP)
(TA-0597-2-2ING-99FORM-DUMP)

This unit has 99 formulas which control relay outputs to fill the scale hopper to the correct net weights.

The system will test for over tolerance of each net ingredient and will give an alarm output if any ingredient exceeds its tolerance percentage.

An alarm will also sound if material does not flow within an adjustable time period.

Each ingredient has a total material accumulator and this data can be printed and cleared at any time.

Calibrate the TR-1 using the main TR-1 calibration manual.
Parameter #00 has been changed to print the scale name.
Set to 00 for no scale name print
Set to 01 to print "CEM"
Set to 02 to print "AGG"

SET-UP:

Set the following for free fall compensation, slow feed (for dual speed unit), ingredient tolerance, and no-flow alarm.

Free-fall is set to the amount early to stop the ingredient. For example, to stop the #2 ingredient at 30 lbs. before the scale reaches the target weight, then set the free-fall for #2 ingredient to a value of 30.

If the unit has 2 speeds for each ingredient, then 2 relays will be activated to start the ingredient flow. The "FAST FEED" relay will drop out at the point set by the Slow Feed setting. For example, to stop the "FAST FEED" relay for the #1 ingredient when the net weight gets within 500 lbs. of the target, then set the slow feed for ingredient #1 (Function #5) to a value of 500.

If the DUMP option is installed, then set Function 0 to the value that the scale must dump down to before the dump gate will close.

FUNCTION 0= Dump down to value.

1= Free-fall for ingredient #1
2= Free-fall for ingredient #2
3= Free-fall for ingredient #3
4= Free-fall for ingredient #4

5= Slow feed for ingredient #1
6= Slow feed for ingredient #2
7= Slow feed for ingredient #3
8= Slow feed for ingredient #4

10= Time period before alarm sounds if no product flows (Set to the number of display updates)

11= Tolerance % over-fill for #1
12= Tolerance % over-fill for #2
13= Tolerance % over-fill for #3
14= Tolerance % over-fill for #4

1. Press and hold the FUNCTION button until the data lamp lights.
2. Enter the function number desired and press the enter button.
3. The display will show the current setting for this function. Use the keypad to alter this value and press enter when finished.

FORMULA SELECTION:

Rotate the formula number thumbwheels to the desired formula number. (00 to 99)

SETPOINT ENTRY:

1. Press and hold the SETPOINT button until the data lamp lights.
2. Enter the ingredient number (1-4) desired, then press enter.
3. The display will show the current value for this ingredient.
4. Use the keypad to alter the value, then press enter.
5. Repeat steps 1 to 4 for any ingredients to change.

VIEWING THE FORMULA:

When the system is not running a batch, the ID button can be pushed to view the contents of the selected formula. The display will flash thru each setpoint (1,2,3,4).

When the system is running, pressing the ID button only shows the formula number of the formula that is running. This may be used to verify the setting of the thumbwheels when the start button was pushed. Note that it is possible to run a different formula for each scale but this is not advised.

OPERATE:

1. Set the formula number desired.
2. Assure that the scale is empty.
3. Press the GREEN start button, and note that the lamps flash to indicate that the system is in the run mode.
4. The system will fill each ingredient that has a value that is not zero, or less than the free-fall setting. The printer output will identify the ingredient and the amount that was loaded into the scale.
5. When finished it will return to the GROSS display mode, and the lamps will stop flashing. The printer will print the total of all materials loaded.

OPTIONAL DUMP:

1. Press the DUMP button.
2. The dump relay will activate until the gross weight gets down to the value set by FUNCTION #0.

NOTES:

To stop the system before finishing the complete batch, press the RED button or the "CLEAR" button.

To override a tolerance alarm, press the GREEN start button.

INVENTORY TOTALS:

1. When the system is not running, press the PRINT button.
2. The printer will print the total weight used for each ingredient.
3. The display will show all dashes.
4. To clear the totals, press the CLEAR button.
5. To keep the totals, press the ENTER button.