Model 4200 Special Accumulator Software
M4223 Rev. 4.3 or DSW0044

This addendum describes the operation of the special software installed in the Model 4200 indicator. The software provides the capabilities to accumulate, average and count the number of weighments placed on the scale. The total and subtotal can be printed, and the number of weighments (pieces), the accumulator total, and the average can be displayed.

The accumulator can be operated in one of two modes. The single accumulator mode will cause all accumulations to collect in one accumulator, regardless of which product is selected. The multiple accumulator mode allocates one accumulator for each product (as selected with the PROD button). This allows 20 separate accumulators (100 if 42OPT27 or 42OPT28 is ordered) to be used. The software allows the operator to select the mode of operation using the print function menu described below.

Once the accumulator operation has been selected, the accumulation of weighments can begin. An accumulation takes place whenever a print request is given to the scale. This means that a push-button print may be used in addition to any of the autoprint modes. When a print request is received, the scale will respond with "ACCU" on the display of the scale for about 1 second and then return to normal weighing.

To review or print the stored values, the print menu must be entered. Enter the print menu by pressing and holding the PRINT push-button until the scale displays "dOnE". This is the first selection in the print menu and the selection required to exit the print menu and return to normal weighing.

Each selection in the print function menu is described on the following page. To scroll through the menu, press the UP or DOWN arrows. To print the total (PrttOt), subtotal (PrtSUb), or accumulator list (PrtALL), momentarily press the PRINT button. To display the total (dSPtOt), number of pieces (dSPPCS), or average (dSPAvg), press and hold the PRINT button. The values will be displayed as long as the PRINT button is held. To exit the menu, scroll to the "dOnE" prompt and press PRINT.

To choose between the single or multiple accumulator modes, scroll to the "OPt" prompt. The number of accumulators will be shown on the right half of the display. To change between 1 and 20 (100 if 42OPT27 or 42OPT28 is installed) accumulators, momentarily press the PRINT button.

The accumulator can only accumulate positive weights, and each weighment must be in the same units (lb, kg, or oz). Make sure that only positive weights are accumulated and that the units are not changed between accumulations (the UNITS button can be disabled if desired).

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The following table shows each of the print function menu selections and explains the operation of each:

Prompt	Description
dOnE	When the PRINT button is pressed, will exit the print menu and return the scale to normal weighing.
PrttOt	When the PRINT button is pressed, will cause the scale to print the accumulator total as described on the following page. After printing, the values for the selected accumulator are cleared.
PrtSUb	When the PRINT button is pressed, will cause the scale to print the accumulator subtotal as described on the following page. After printing, the selected accumulator is NOT cleared.
PrtALL	When the PRINT button is pressed and held for about 2 seconds, will generate a total printout of all accumulators that have been accumulated into. After printing, all accumulators are cleared. Use this selection with caution.
dSPtOt	Will display the total accumulated weight for the selected accumulator as long as the PRINT button is held. This register has a maximum value of 99999999.
dSPAvg	Will display the average of all the accumulations for the selected accumulator as long as the PRINT button is held. This register has a maximum value of 99999999.
dSPPCS	Will display the total number of pieces accumulated (weighment #) for the selected accumulator as long as the PRINT button is held. This register has a maximum value of 9999.
OPt	Displays the number of accumulators used, "OPt 1" for the single accumulator mode, or "OPt 20" for the multiple accumulator mode (displays "OPt100" if 42OPT27 or 42OPT28 is installed). To select between single and multiple accumulator modes, press PRINT. The display will change accordingly.

Make sure that the baud rate and data bits and parity settings match those of the printer that are being used (see 4200 manual for these settings). Set the data output option (transmit on demand, autoprint, etc.) and the print format setting as desired.

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Accumulator Print Formats:

When the total is printed, the output to the printer will be:

```
ACCUM 00  TOTAL
TOTAL WT:          5.85 lb
TOTAL PCS :           5
AVG WT:            1.17 lb
```

When the subtotal is printed, the output to the printer will be:

```
ACCUM 00 SUBTOTAL
TOTAL WT:          5.85 lb
TOTAL PCS :           5
AVG WT:            1.17 lb
```

When "PrtALL" is selected, a list of all accumulators that have been accumulated to will be printed using the total format shown above. If all the accumulators are empty (none have been accumulated to), the output will be:

ALL ACCUMULATORS ARE EMPTY

Note: In order to include the total accumulated pieces (weighment number) for a normal print request. Use the Label Buffer with command "\a". See Section 8, Label Buffer Control Codes in the 4200 manual.