

# Application Note #2

## Accumulation, how to implement a running total.

The M2000 has accumulation features similar to the DF2000

- Accumulation is done through creating ticket macros
- Totals can be displayed on the display or printed
- Text messages can be integrated with the totals on the display
- Total functions can be assigned to the PRINT, IN or OUT key or called from a ticket number

Software Version 1.40 or greater is required for the examples below.

### A Simple Totalizer with no printer (part 1)

A fish processing plant uses scales to weigh totes of fish being offloaded into the plant. Each scale operator keeps a running total of the fish type they are weighing in. The indicator is used to keep track of running total and number of totes weighed.

The environment is too hostile for a printer, so the totals must be displayed to the indicators display.

The example below demonstrates the following:

- How to add the display weight to a total weight
- How to keep a weigh count
- How to clear the accumulator to zero
- How to display the running total and weigh count

Three tickets will be created for the above example.

**Ticket 200** takes the displayed weight and adds it to the accumulator. This ticket macro is assigned to the PRINTSELECT key.

**Ticket 201** displays the total weight and total tote count and is assigned to the OUT key

**Ticket 202** clears the accumulators to zero and is assigned to the IN key.

## M2000 Accumulating Weights application examples

### Ticket 200

This Ticket is assigned to the Print/Select Key.

Every time the Print/Select key is pressed the scale weight is added to ACC1 and the ACC4 is incremented to keep track of the tote count.

**C23** ACC1=ACC1+gross weight on channel1  
**C259** increment ACC4 by 1 (this is the tote count)  
**C300** send text to the display  
**32,32,65,68,32** “ Add “  
**C406** delay 0.5 sec  
**C301** reset display back to normal

### Ticket 201

This Ticket is assigned to the OUT Key.

Every time the Out Key is pressed the indicator will display the message “Total” followed by the total weight, and then the indicator will display “Count” followed by the total tote count.

**C300** send text to the display  
**84,79,84,65,76,32** “TOTAL “  
**C406** delay 0.5 sec  
  
**C280** ACC5=ACC4 save ACC4 (tote count)  
**C260** ACC4=ACC1 copy total weight from ACC1 to ACC4  
**C410** display ACC4 as weight  
**C405** delay 1 sec  
**C405** delay 1 sec  
  
**C300** send text to the display  
**67,79,85,78,84,32** “COUNT “  
**C406** delay 0.5 sec  
  
**C281** ACC4=ACC5 get the tote count  
**C411** display ACC4 as integer  
**C405** delay 1 seconds  
  
**C301** reset display to weight mode

## **M2000 Accumulating Weights application examples**

### **Ticket 202**

This ticket is assigned to the IN key. When the IN key is pressed it will display the message "CLEAR" and clear all the accumulators to zero.

**C257** clear ACC4 to 0

**C270** copy ACC4 to ACC1 to clear ACC1

**C300** send text to the display

**67,76,69,65,82,32** "CLEAR "

**C405** delay 1 second

**C301** reset display back to normal