ST98 TOTALIZER Introduction

The ST98 with software version 2.32 provides for an easy, quick and efficient way to display locally the complete Totalizer Value for the ST98 Flowmeter.

The Complete Totalizer value is kept in 2 separate internal registers; one that accumulates the totalize value up to a value of 1E6, and the other register that accumulates the totalize value in increments of 1E6, up to a value of 65,000E6.

The ST98 displays each register value independently on the second line of the local ST98 Display in sequence, sharing the line with the Process Temperature value.

The maximum totalized value that the ST98 can accumulate and display is 65,000,999,999.999.

ST98 TOTALIZER Selection and Setup

For the ST98 to totalize flow, two things must happen; the flow units must be set to mass flow or volumetric units (SCFM, Lbs/Hr, NCMH, Kg/Hr.), and the TOTALIZER mode must be selected, and setup.

TOTALIZER Mode setup
Confirm that the ST98 is in mass flow or volumetric units. If not, select the Flow units first.

1.   Connect the FC88 to the ST98.

2.   Press the "W" key in the FC88. This will take you through a series of prompts that will help you select and setup the Totalizer Mode. Make sure to select "Totalizer ON", respond Yes to "reset Totalizer" and select ON for the "Temp Display" if you wish to display the Process Temperature.

3.   Make sure to put the ST98 back into "Process Data Collection" Mode when you are finished setting up the Totalizer. The ST98 is put into the "Process Data Collection" mode, by pressing the "T" key on the FC88. The FC88 can be disconnected from the ST98 at this time.

ST98 TOTALIZER Display and Operation

When the Totalizer Mode has been selected and is operational, the ST98 will display the complete Totalizer value by displaying in sequence on the second line of the display the "Active Totalizer" register value, followed by the Rollover Counter" Register, and last the "Process Temperature" Value. Each will display for approximately 5 seconds, then the sequence will repeat it self.

Line 1: Real time flow value (NCMM)
Line 2: Active Totalizer value (NCM)

Line 1: Real time flow value (NCMM)
Line 2: Totalizer Rollover counter (NCM)

Line 1: Real time flow value (NCMM)
Line 2: Real time temperature (°C)

The "Rollover Counter" data can also be viewed using the "D" command in the FC88 Configurator.