General Information

The SeaMetrics FT96 is a battery-powered digital indicator which converts pulses from the flow sensor into rate/total information. Power for this unit is provided by two lithium C-size batteries located inside the housing. Pulse output for telemetry or pump control is a standard feature. The pulse output is an Opto-isolated open collector transistor.

Display

The rate display has 4.5 digits and updates once every two seconds. The descriptors on the rate display are : /SEC, /MIN, /HR. The totalizer display has 8 digits and it's descriptors are : GAL, LIT, FT3, M3, and "blank". The other display is a warning display, which has a low battery warning indicator.

Settings

This unit will normally be installed and programmed with the necessary settings at the factory. If it is necessary to make any changes, follow these procedures.

Keys. Press the M key to enter the programming menu. Press it again to advance to the next menu item. Use the up arrow to increase the digit displayed, and the horizontal arrow to advance to the next digit. When the desired number is displayed, use the E key to enter it.

Reset. The first menu item is labelled "Clr tot". Pressing the E key when this is displayed will reset the total to zero. Press M to go to the next item if totalizer reset is not desired.

Set K-Factor. The K-factor is the number of pulses per unit volume which the meter or flow sensor provides. For some SeaMetrics flow sensors it is marked on the unit itself or on the sensor fitting, for others it must be taken from a chart in the instruction manual.

The K-Factor range for the FT96 is 0.001 to 59999.

This number is preprogrammed into the FT96. If it is necessary to change it, follow these steps:

    1.Skip the menu item "FAC mul" (factor multi-plier).
    2.The next item is "Fdec" (factor decimal). In the unlikely event that the decimal point must be changed, step it to the desired location and press E.
    3.Advance to "FAC" (factor). Enter the desired K-factor.

Totalizer Decimal Point. The next item is "tdEC" (totalizer decimal). This is the location for the decimal point on the totalizer display. Step to the desired location and enter.

Units. Next is the menu item "tot dESC" (total descriptor). Available choices are GAL, LIT, FT3, M3, and blank. Choose one, enter it, and advance to the next item.

Rate Units. The next item is marked "SCALE". Choose SEC, min, or HrS for the rate units. Enter and advance.

Zero Delay. This item is marked "dELAY". It controls the amount of time the unit will look for another pulse before displaying zero. If necessary, change it to the desired value, from 0.1 to 8.0 seconds.

Pulse Output. This is marked "PuLSEout". Also displayed is a choice of d1, d10, d100, or oFF. When this divider is set to d1, the pulse output will occur every time the total-izer increases the second-to-last digit (least significant digit). The 10 and 100 dividers ouput a pulse for every 10 or 100 counts of this digit. The factory setting is d1.

Pulse Output Length. Marked "FrEqout", this controls the duration of the ouput pulse. Factory standard is 4 HZ. These are the lengths of the choices:

| SPEED (Hz)	1	2	3	4
Min. on/off (msec)	500	250	125	62.5

Power. Batteries on the FT96 should last approximately four years, somewhat longer if the pulse ouput is not being used.

⚠ **Caution**.Change one battery at a time. Leave one battery in place while changing the other one. Removing both batteries at the same time will result in all information being lost, including the flow total, and it will be necessary to reenter all of the settings.

Use only lithium C-size batteries. Observe the polarity (+ and -) markings on the battery holder, and be sure that they match the markings on the batteries.

FT96 Wiring Diagram
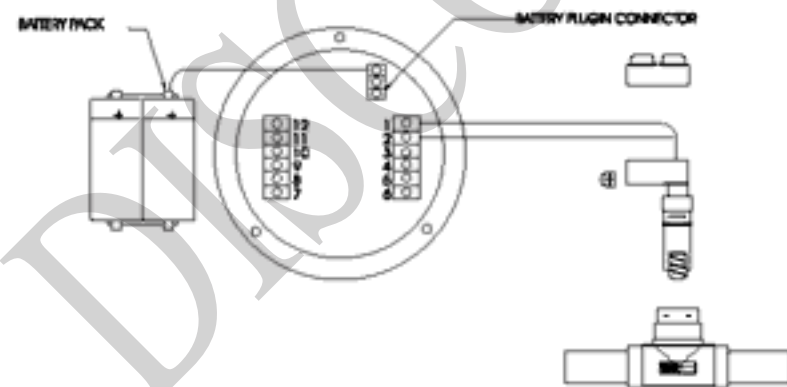
NOT USED - 12	1 - MAG INPUT
NOT USED - 11	2 - MAG INPUT
NOT USED - 10	3 - NOT USED
NOT USED - 9	4 - NOT USED
OPTO OUT (+) - 8	5 - NOT USED
OPTO OUT (-) - 7	6 - NOT USED