Using The CPS-460 FLOWCHART

OPERATING INSTRUCTIONS

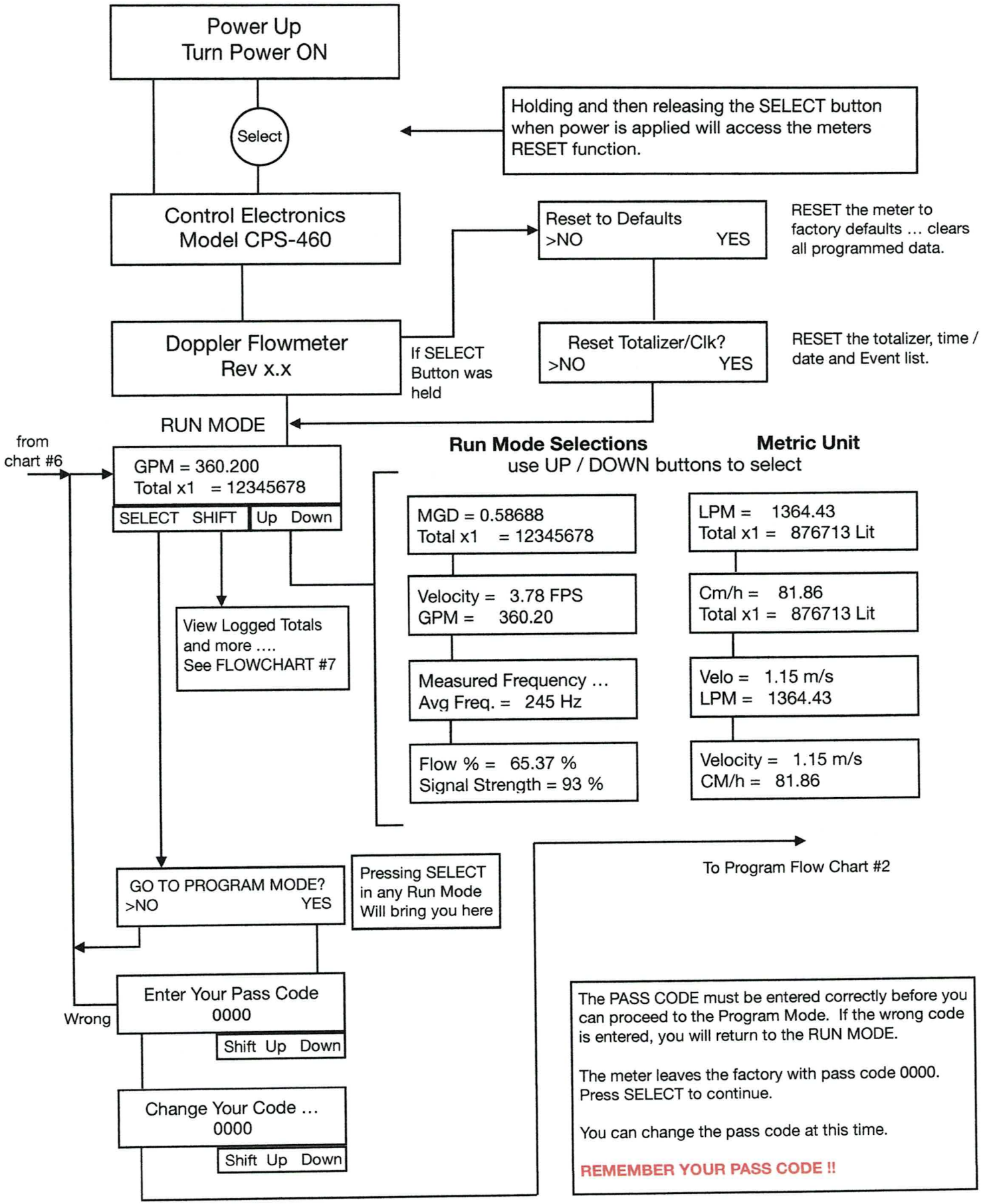
When power is first applied, the PDS-360 flowmeter will run through its POWER-UP windows. It should display 2 windows indicating name of manufacturer, model number, type of meter and the software revision number. The process takes a few seconds and will then enter the RUN MODE. The flowmeter will display the window that was ON (selected) prior to turning power 'OFF'. To select or scroll through the RUN MODES, use the UP/DOWN buttons. Each press of the button takes you to the next window. Selecting any of the RUN MODES will not affect the 4-20 mA. output or any of the programmed settings. The flowmeter begins monitoring flow automatically.

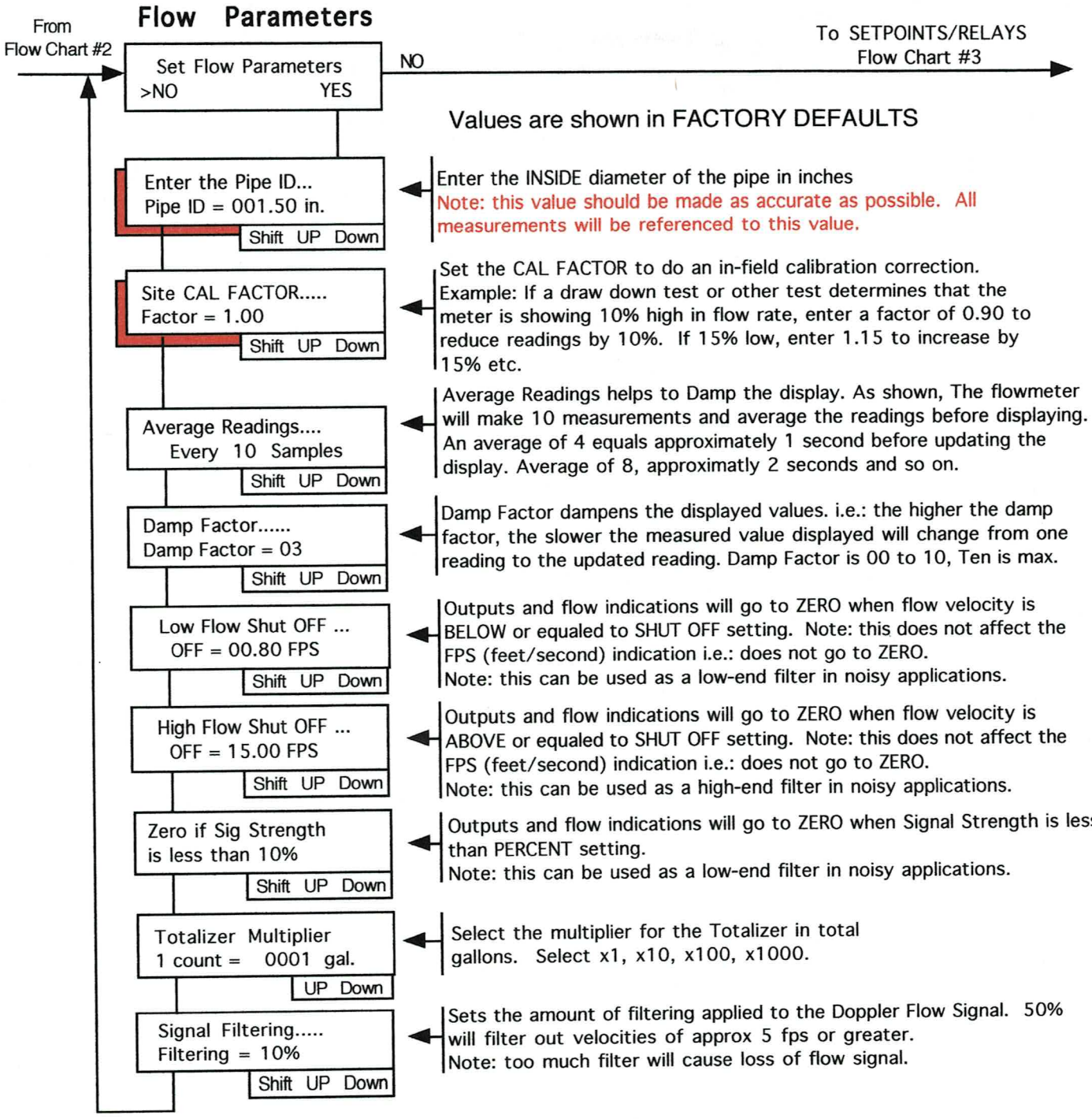
To enter the PROGRAM MODE, press the SELECT button. You will be asked GO TO PROGRAM MODE?. Press YES. You will be asked for the PASS CODE before you can enter into the PROGRAM MODES. The pass code is 0000 when it leaves the factory and will remain this until you change it. Press SELECT. If you like to change the code at this time, use the SHIFT, UP and DOWN buttons to enter your new pass code then press SELECT. This stores your new code. You now have access to the program section. If the wrong pass code is entered, you will be returned to the RUN MODE.

REMEMBER YOUR PASS CODE!!!

Once you entered the PROGRAM MODE you can scroll through it by pressing the SELECT button. The SELECT button performs three functions: 1] NO, 2] ENTER and 3] NEXT WINDOW. Use the SHIFT, UP and DOWN buttons to change the values in each window as needed. The DOWN button is used to select YES when data values are not displayed. The Programming Flowchart will guide you through the many features and functions available to you. A brief explanation for each window is provided in the flowchart.

CPS-460 Program Flowchart #1

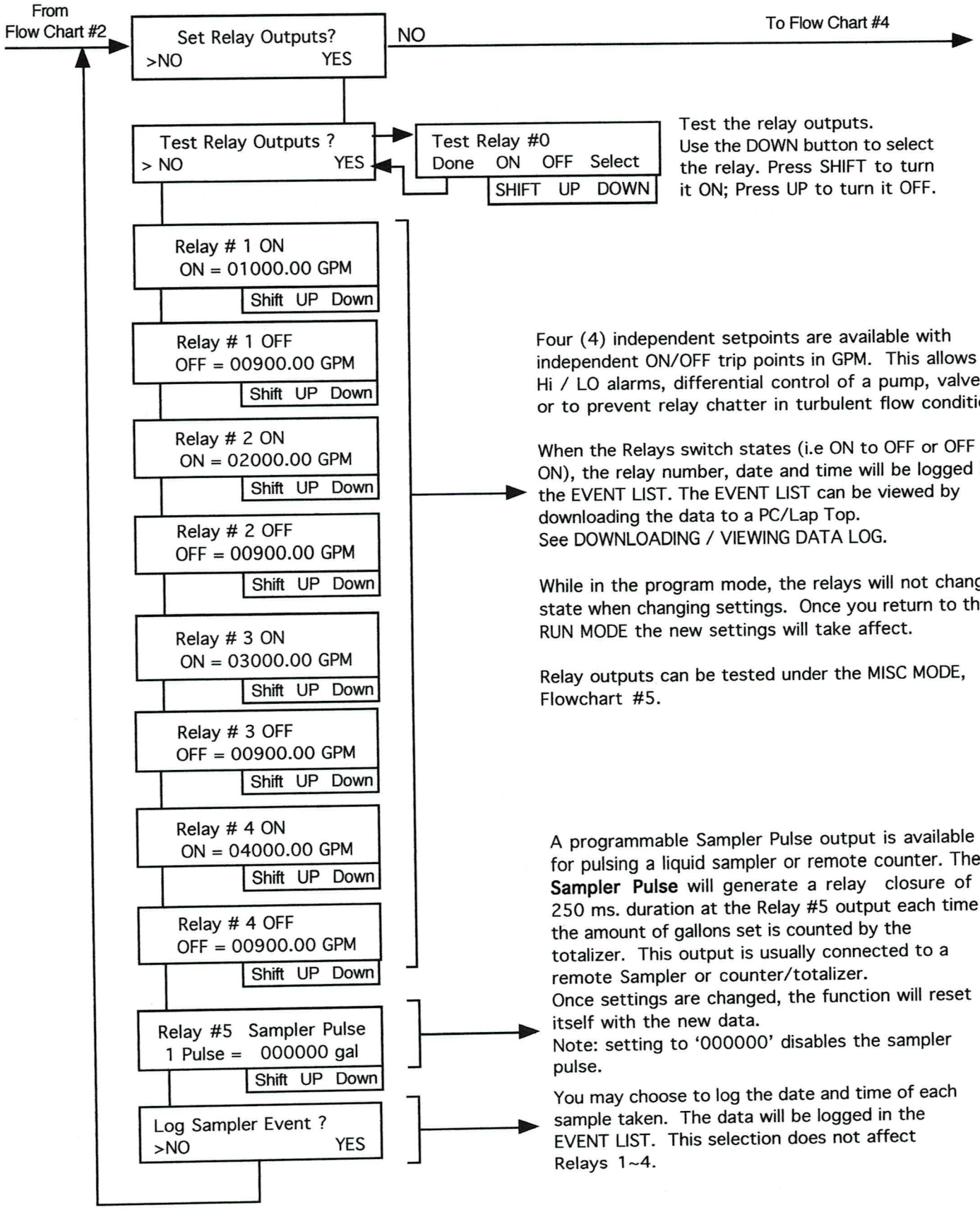




Note:

Shadowed Windows indicate that these parameters MUST be set by the operator to calibrate the flowmeter to the application. All other settings are optional to the user.

RELAY OUTPUTS - N/A on 460DX



Test the relay outputs.
Use the DOWN button to select the relay. Press SHIFT to turn it ON; Press UP to turn it OFF.

Four (4) independent setpoints are available with independent ON/OFF trip points in GPM. This allows for Hi / LO alarms, differential control of a pump, valve etc. or to prevent relay chatter in turbulent flow conditions.

When the Relays switch states (i.e ON to OFF or OFF to ON), the relay number, date and time will be logged in the EVENT LIST. The EVENT LIST can be viewed by downloading the data to a PC/Lap Top.
See DOWNLOADING / VIEWING DATA LOG.

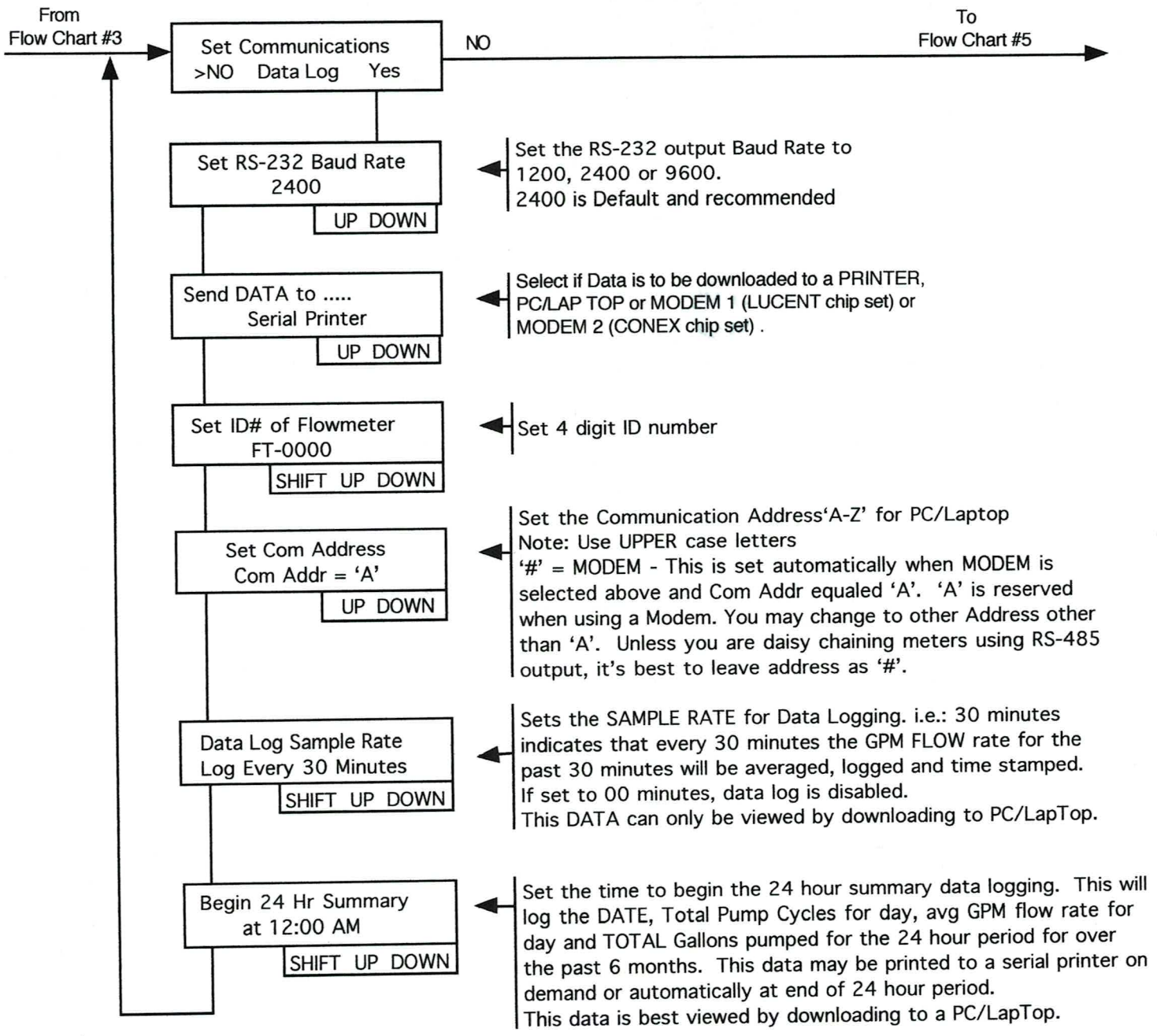
While in the program mode, the relays will not change state when changing settings. Once you return to the RUN MODE the new settings will take affect.

Relay outputs can be tested under the MISC MODE, Flowchart #5.

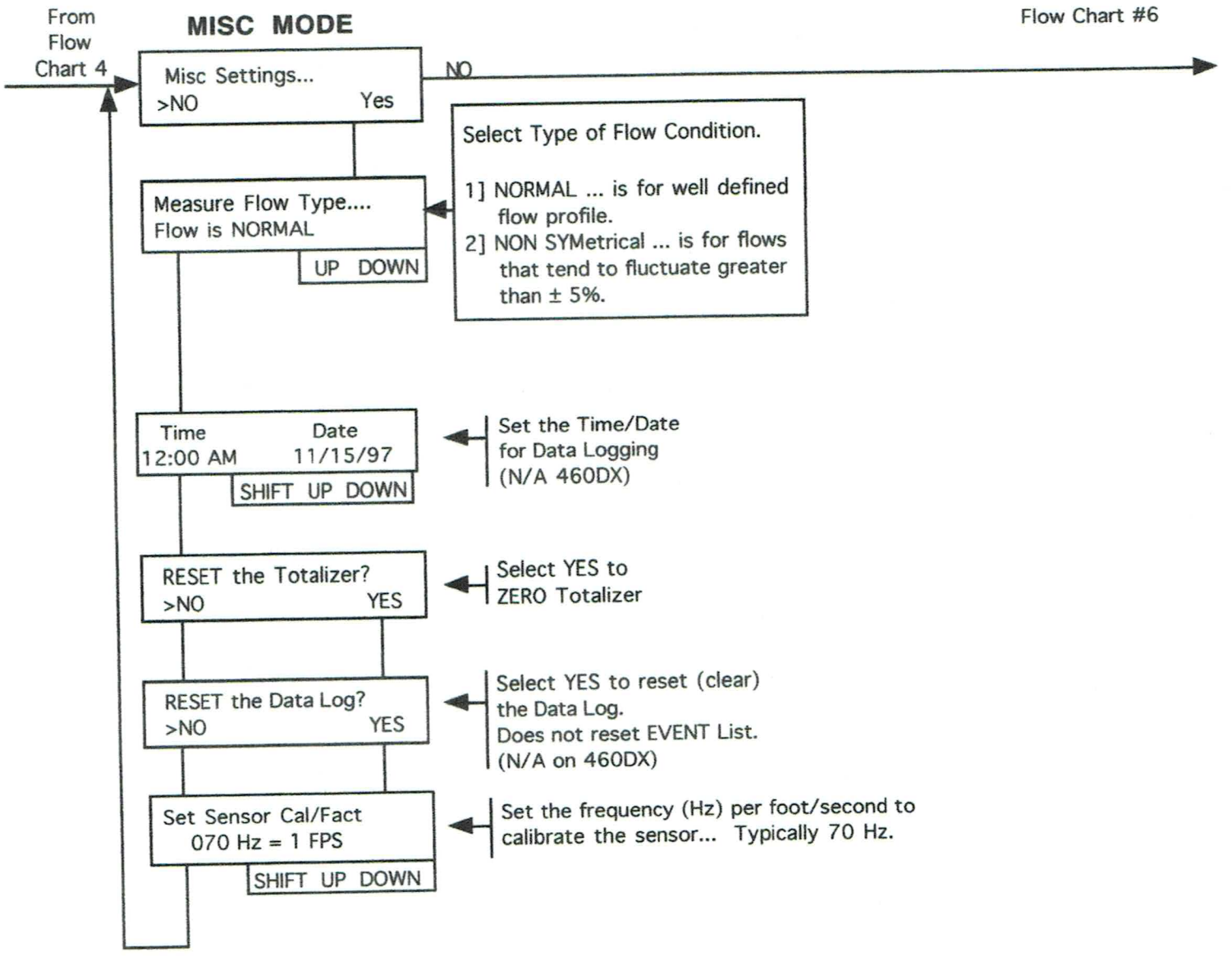
A programmable Sampler Pulse output is available for pulsing a liquid sampler or remote counter. The **Sampler Pulse** will generate a relay closure of 250 ms. duration at the Relay #5 output each time the amount of gallons set is counted by the totalizer. This output is usually connected to a remote Sampler or counter/totalizer.
Once settings are changed, the function will reset itself with the new data.
Note: setting to '000000' disables the sampler pulse.

You may choose to log the date and time of each sample taken. The data will be logged in the EVENT LIST. This selection does not affect Relays 1~4.

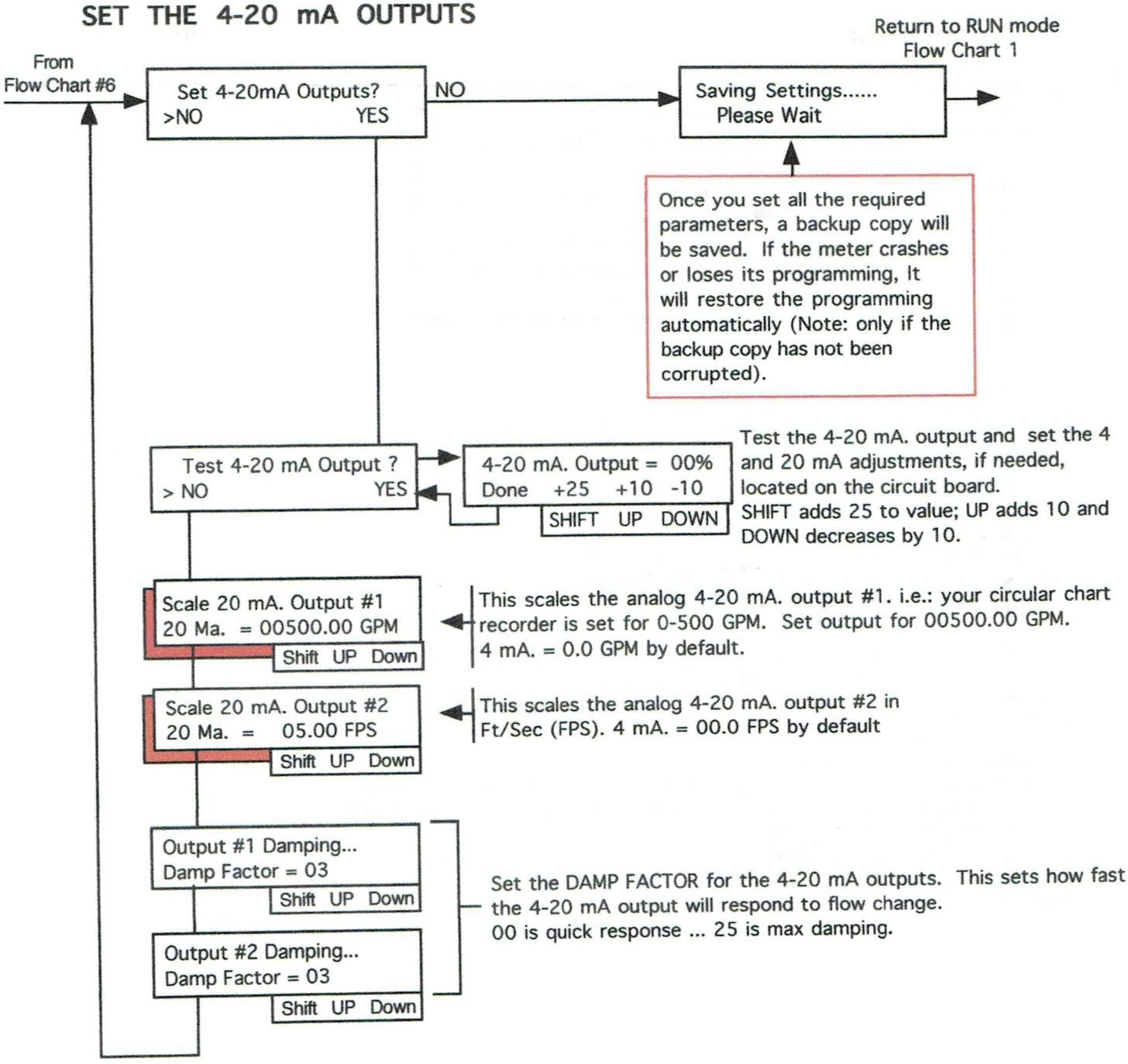
COMMUNICATIONS / DATA LOG - N/A on 460DX

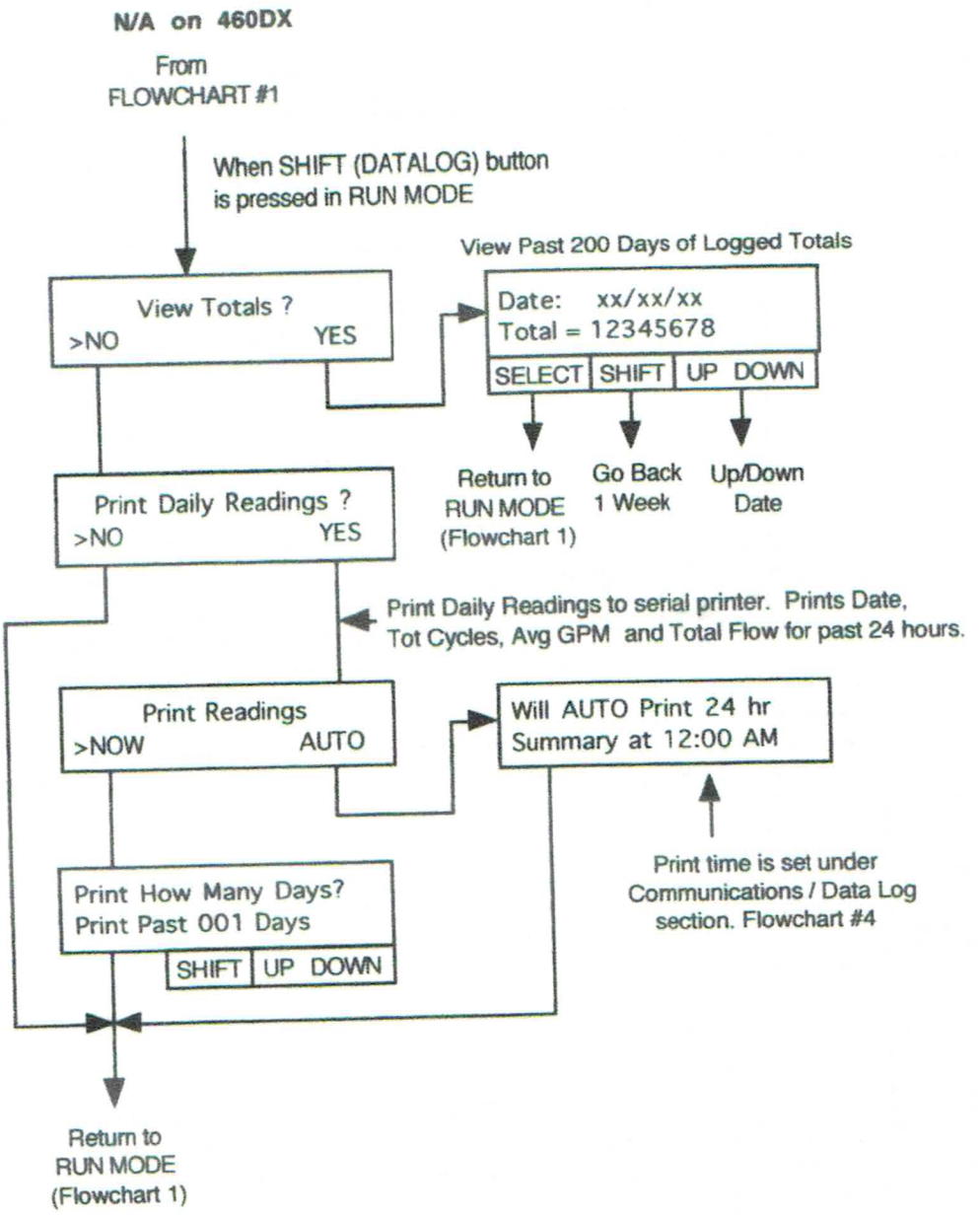


CPS-460 PROGRAM FLOWCHART #5



SET THE 4-20 mA OUTPUTS




N/A on 460DX
From FLOWCHART #1
When SHIFT (DATALOG) button is pressed in RUN MODE
View Past 200 Days of Logged Totals
View Totals ?
>NO YES
Date: xx/xx/xx
Total = 12345678
SELECT SHIFT UP DOWN
Return to RUN MODE (Flowchart 1)
Go Back 1 Week
Up/Down Date
Print Daily Readings ?
>NO YES
Print Daily Readings to serial printer. Prints Date, Tot Cycles, Avg GPM and Total Flow for past 24 hours.
Print Readings
>NOW AUTO
Will AUTO Print 24 hr Summary at 12:00 AM
Print time is set under Communications / Data Log section. Flowchart #4
Print How Many Days?
Print Past 001 Days
SHIFT UP DOWN
Return to RUN MODE (Flowchart 1)