

Using The PDS-360 FLOWCHART

OPERATING INSTRUCTIONS

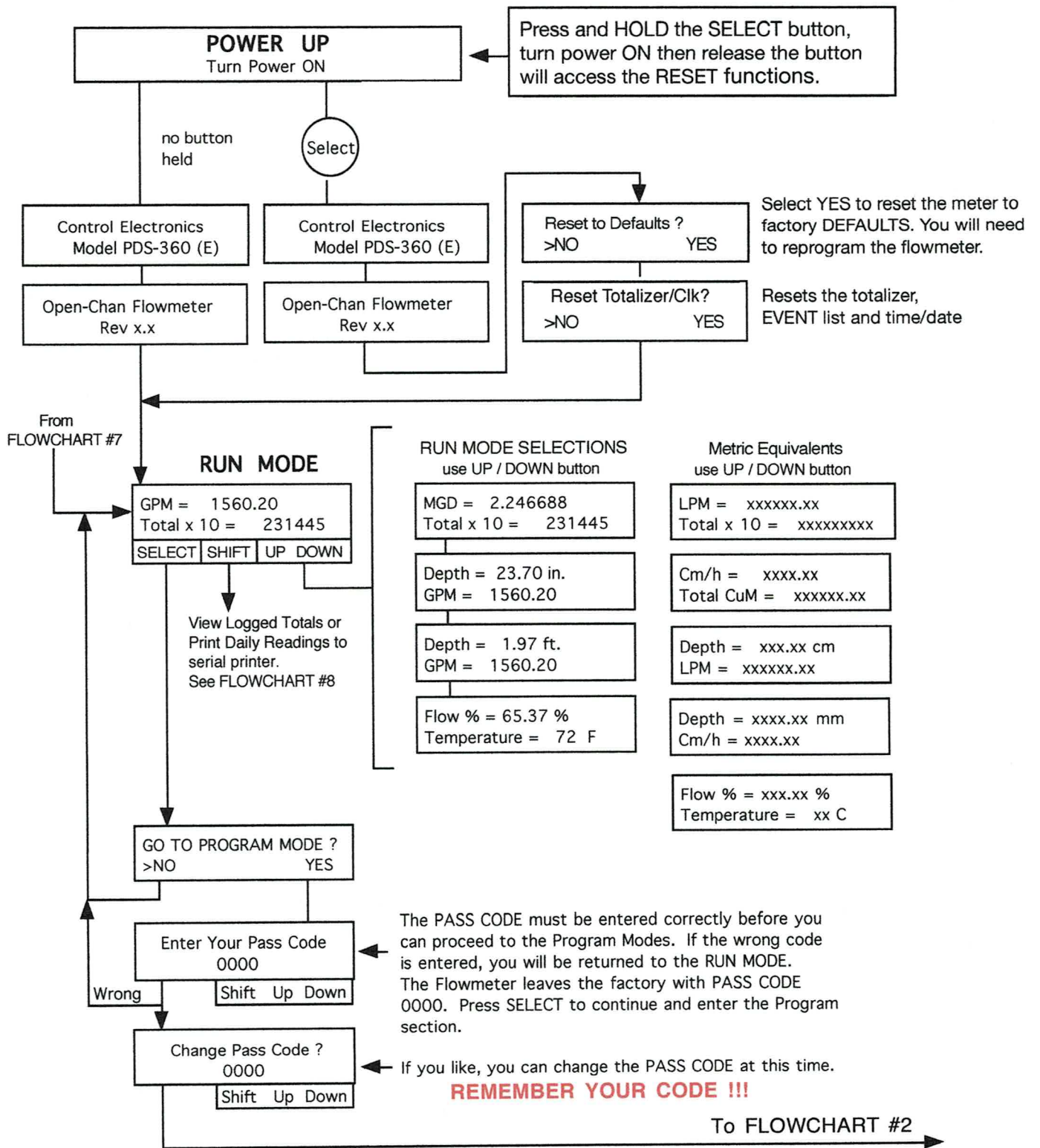
When power is first applied, the PDS-360 flowmeter will run through its POWER-UP windows. It should display 2 windows indicating name of manufacturer, model number, type of meter and the software revision number. The process takes a few seconds and will then enter the RUN MODE. The flowmeter will display 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 incorrect pass code is entered, you will be returned to the RUN MODE.

REMEMBER YOUR PASS CODE!!!

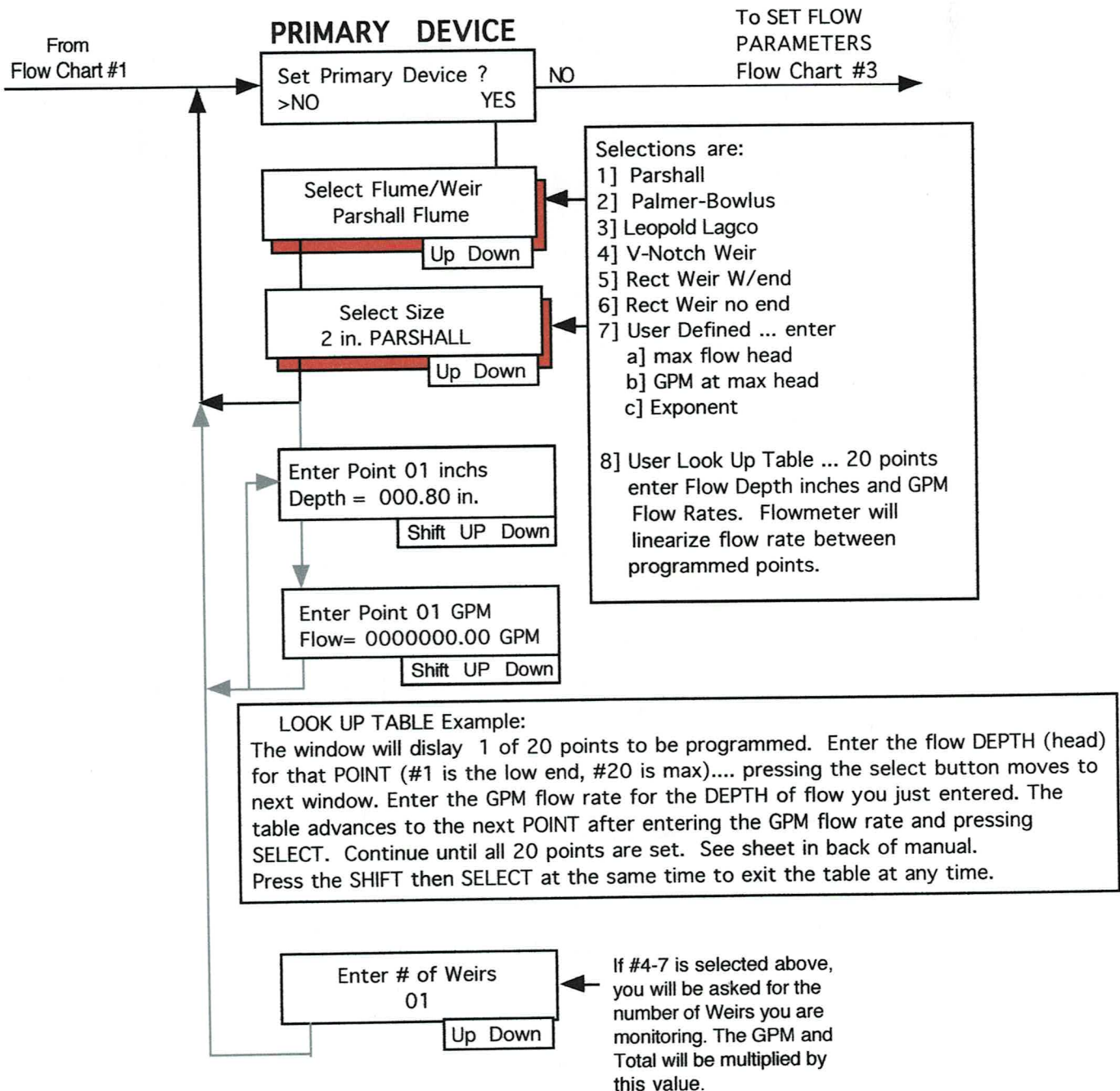
Once you entered the PROGRAM MODE you can scroll through it by pressing the SELECT button. The SELECT button performs three functions: 1] NO, 2] ENTER and 3] NEXT WINDOW. Use the SHIFT, UP and DOWN buttons to change the values in each window as needed. The DOWN button is used to select YES when data 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.

PDS-360 PROGRAM FLOWCHART #1



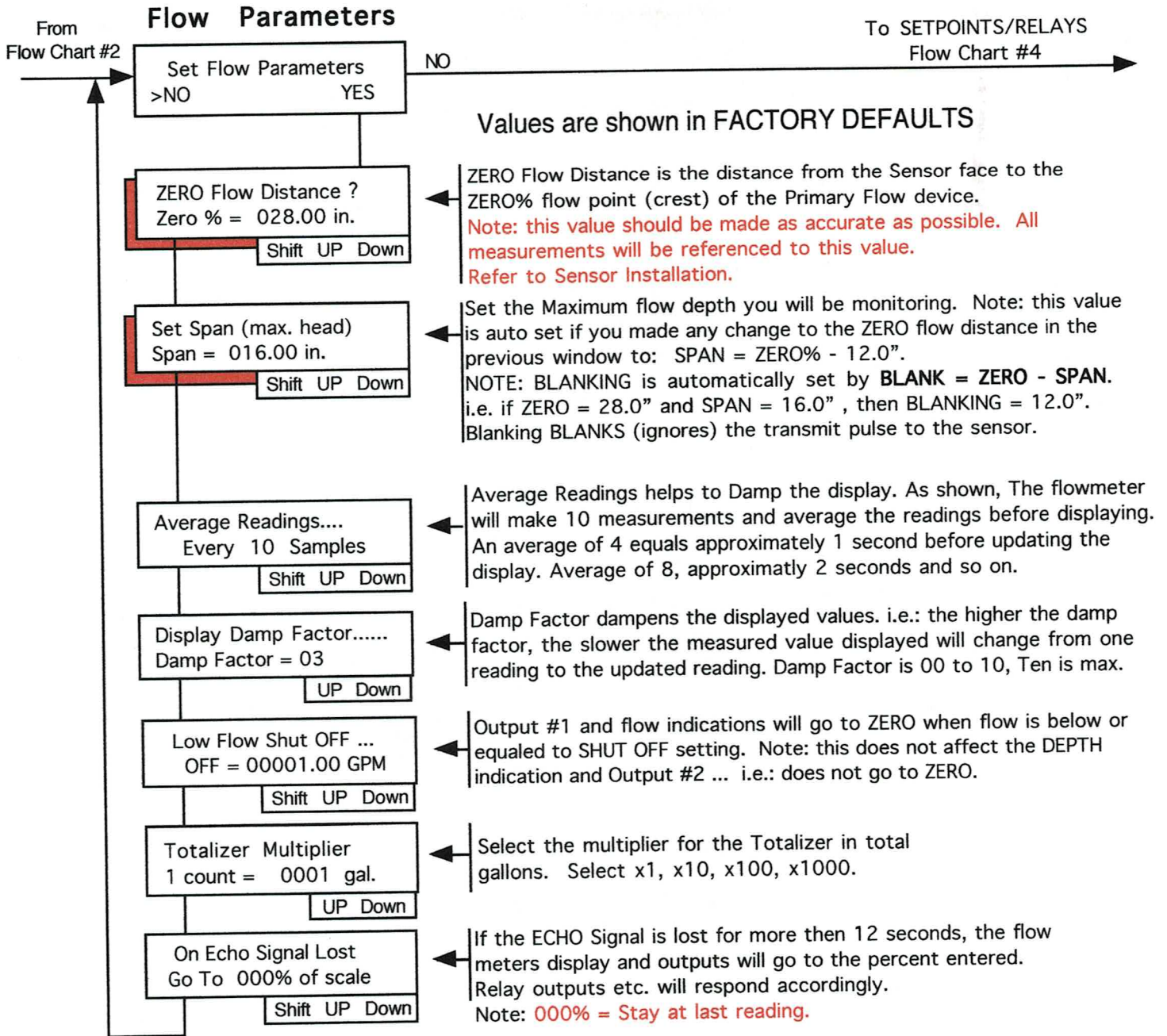
PDS-360 PROGRAM FLOWCHART #2

Note: Shadowed Windows must be set by the user. All others are optional.



Select the Primary Device you are monitoring or use the USER DEFINED or USER LOOK UP TABLE to enter your own flow curve. USER DEFINED uses the ratiometric method to calculate flow. You will most likely need the flow chart for the flow device your using to look up the required information to enter in the programming. USER LOOK UP TABLE is a 20 point look up table with DEPTH vs. GPM flow parameters programmed. All others use the accepted equation for the selected Flume/Weir and do not require you to enter specific information from a flow chart.

PDS-360 PROGRAM FLOWCHART #3

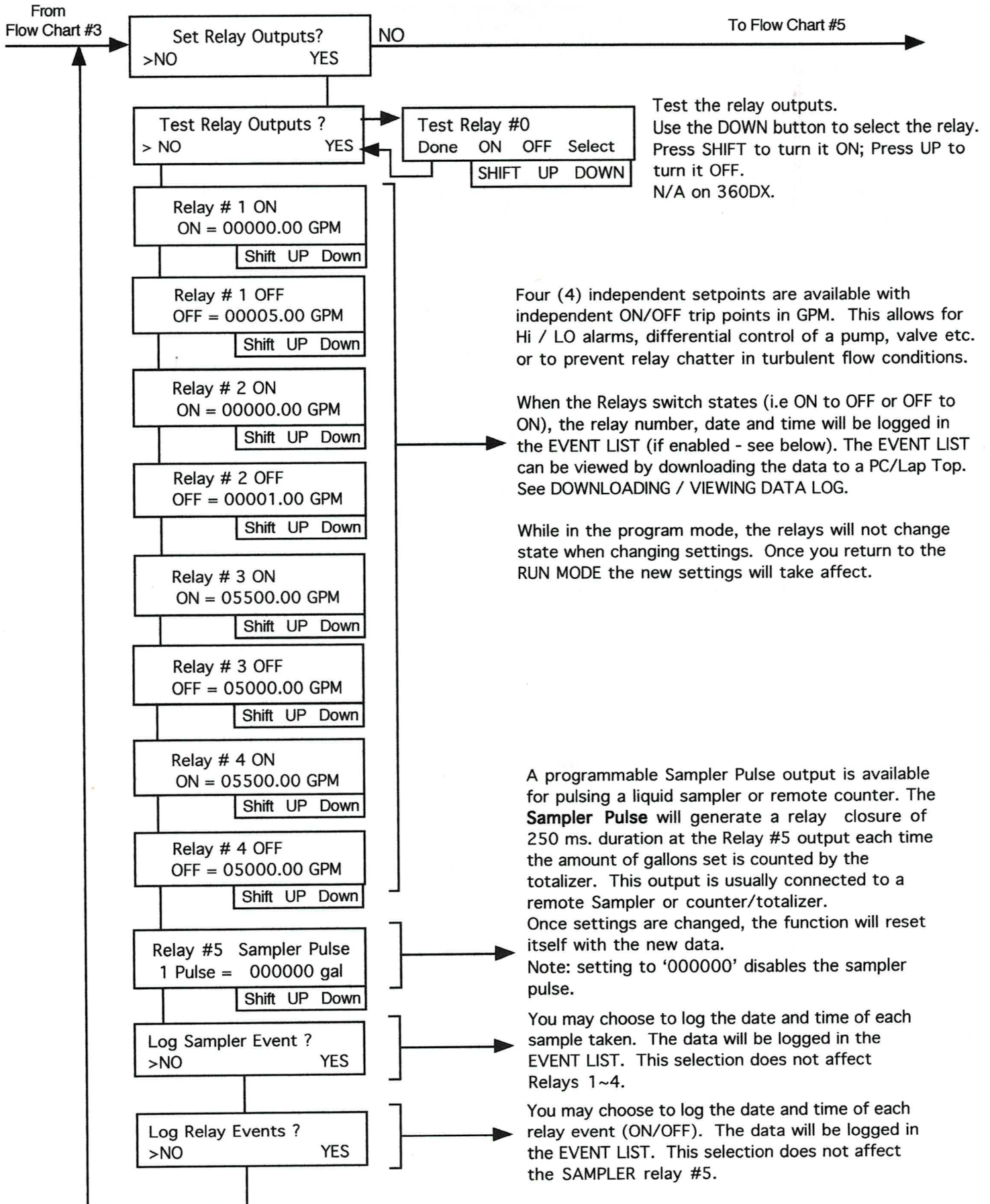


Note:

RED 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.

PDS-360 PROGRAM FLOWCHART #4

RELAY OUTPUTS - N/A on 360DX



Test the relay outputs. Use the DOWN button to select the relay. Press SHIFT to turn it ON; Press UP to turn it OFF. N/A on 360DX.

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 (if enabled - see below). The EVENT LIST can be viewed by downloading the data to a PC/Lap Top. See DOWNLOADING / VIEWING DATA LOG.

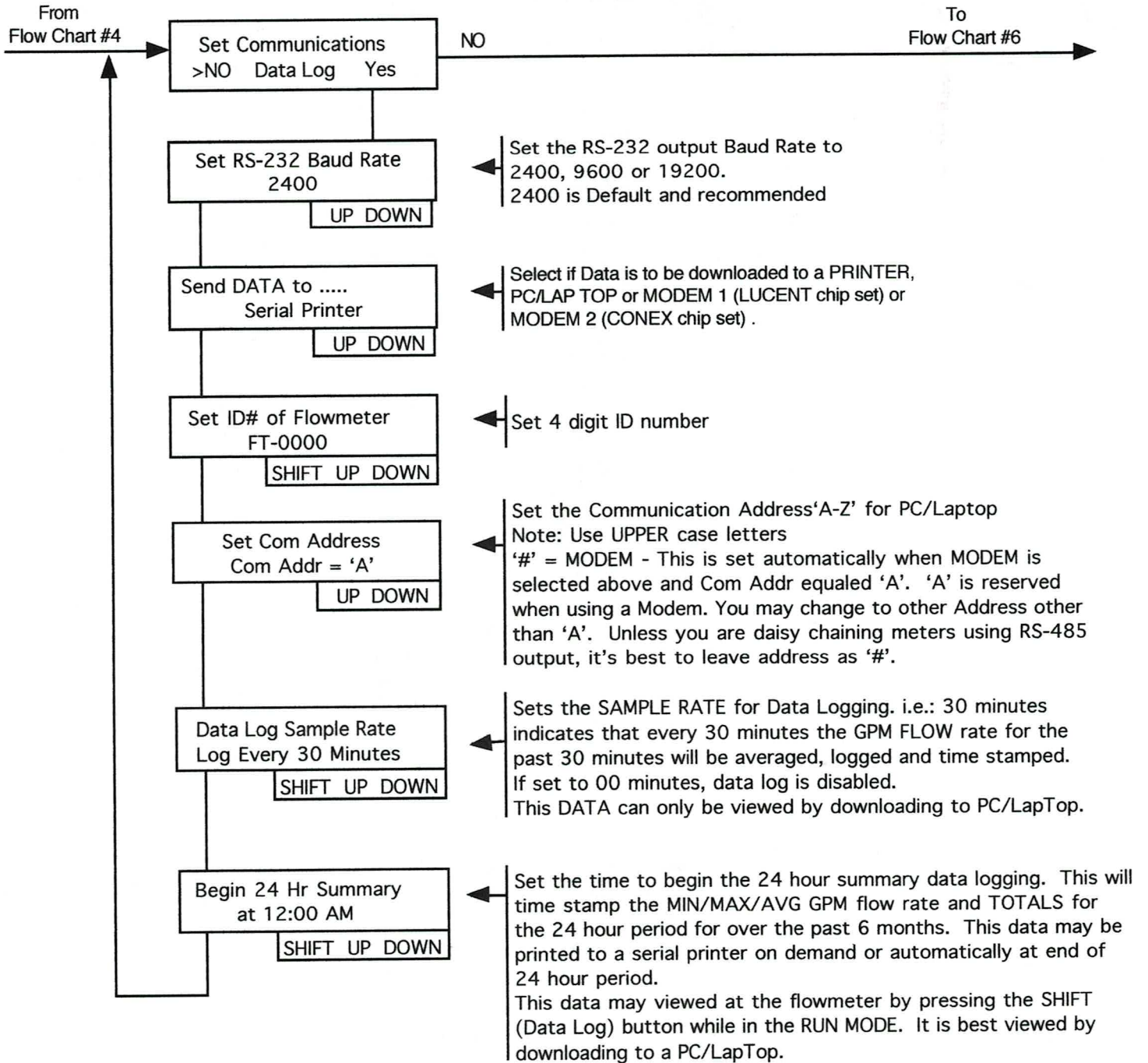
While in the program mode, the relays will not change state when changing settings. Once you return to the RUN MODE the new settings will take affect.

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.

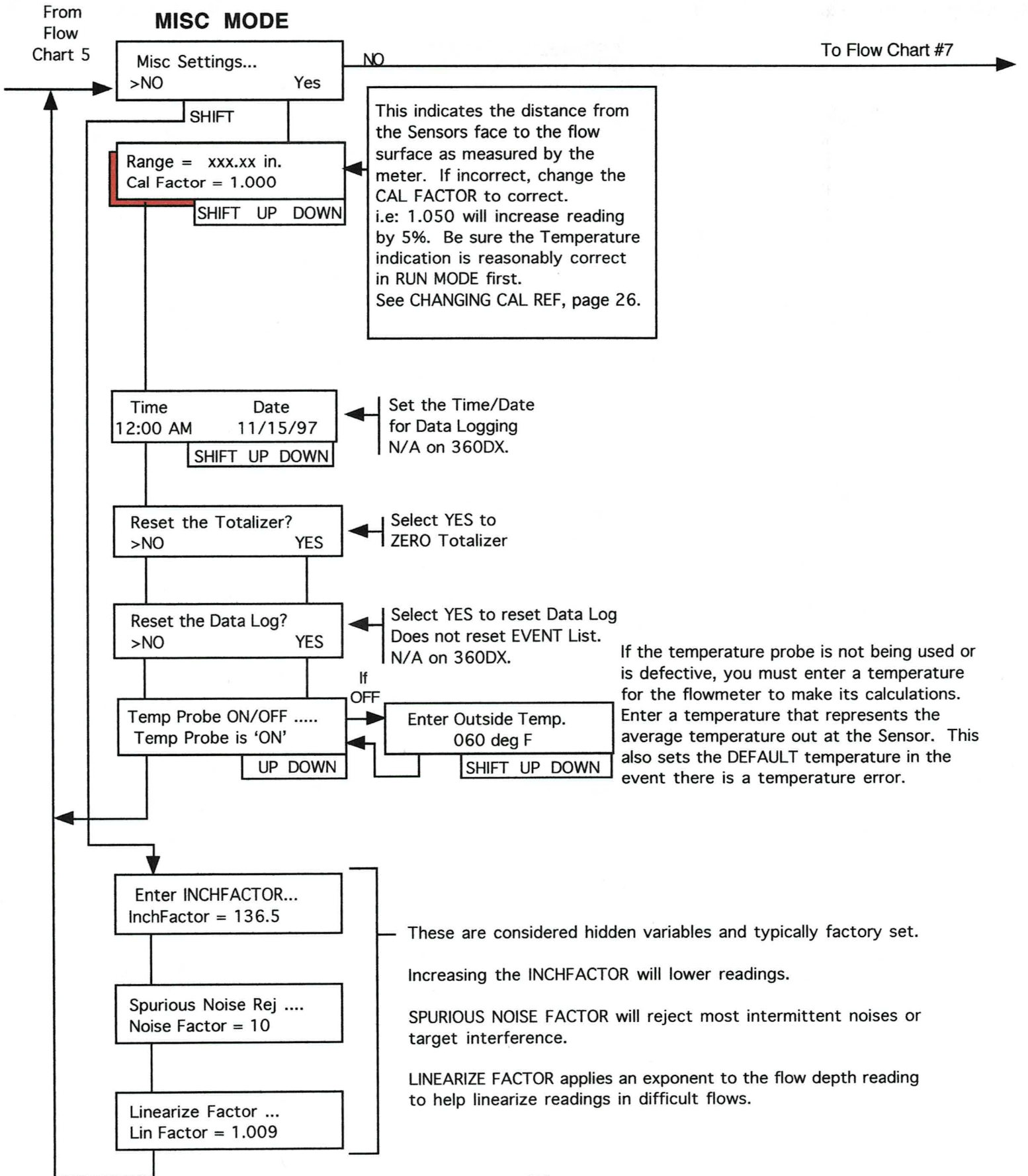
You may choose to log the date and time of each sample taken. The data will be logged in the EVENT LIST. This selection does not affect Relays 1~4.

You may choose to log the date and time of each relay event (ON/OFF). The data will be logged in the EVENT LIST. This selection does not affect the SAMPLER relay #5.

COMMUNICATIONS / DATA LOG - N/A on 360DX

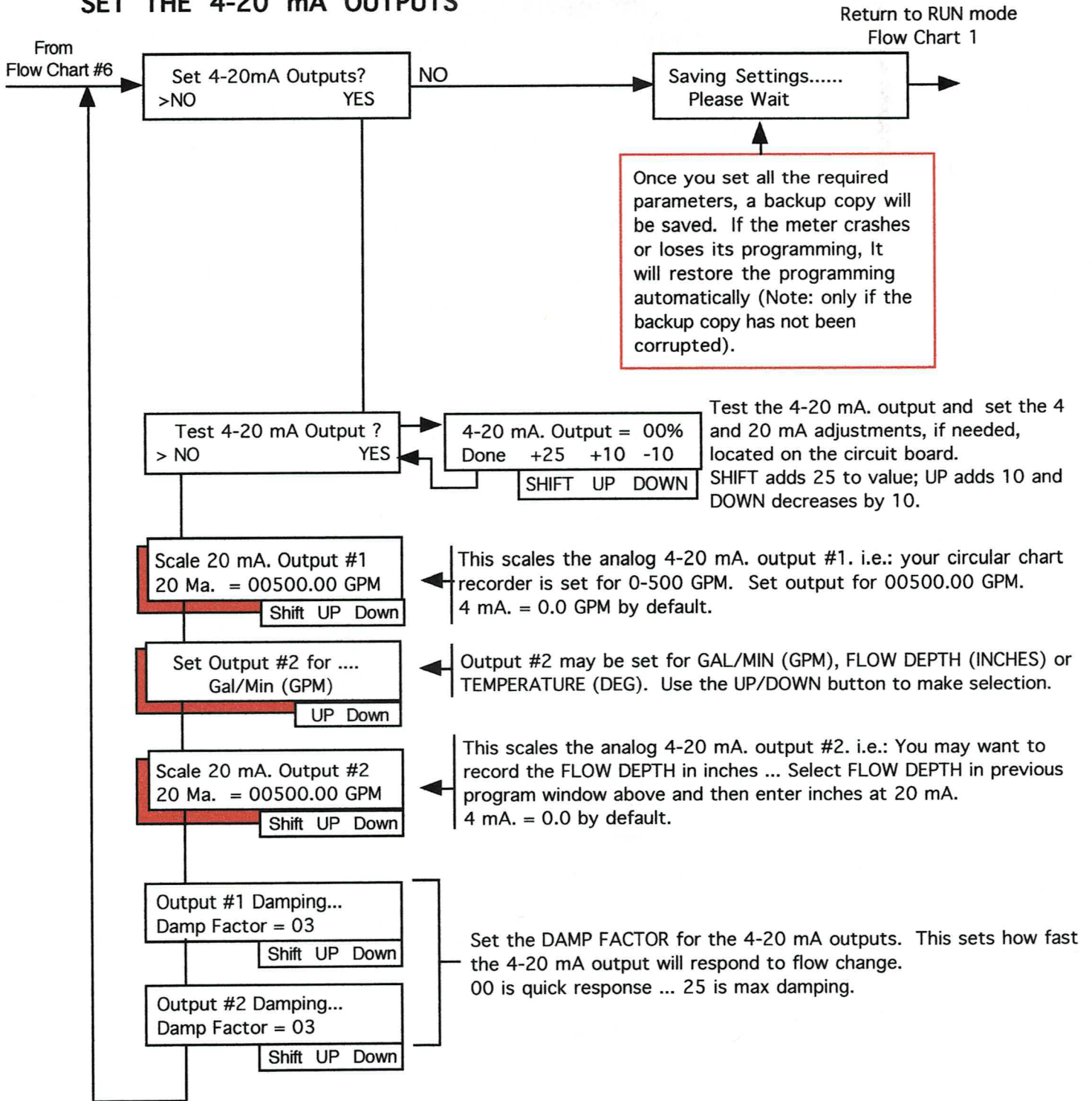


PDS-360 PROGRAM FLOWCHART #6



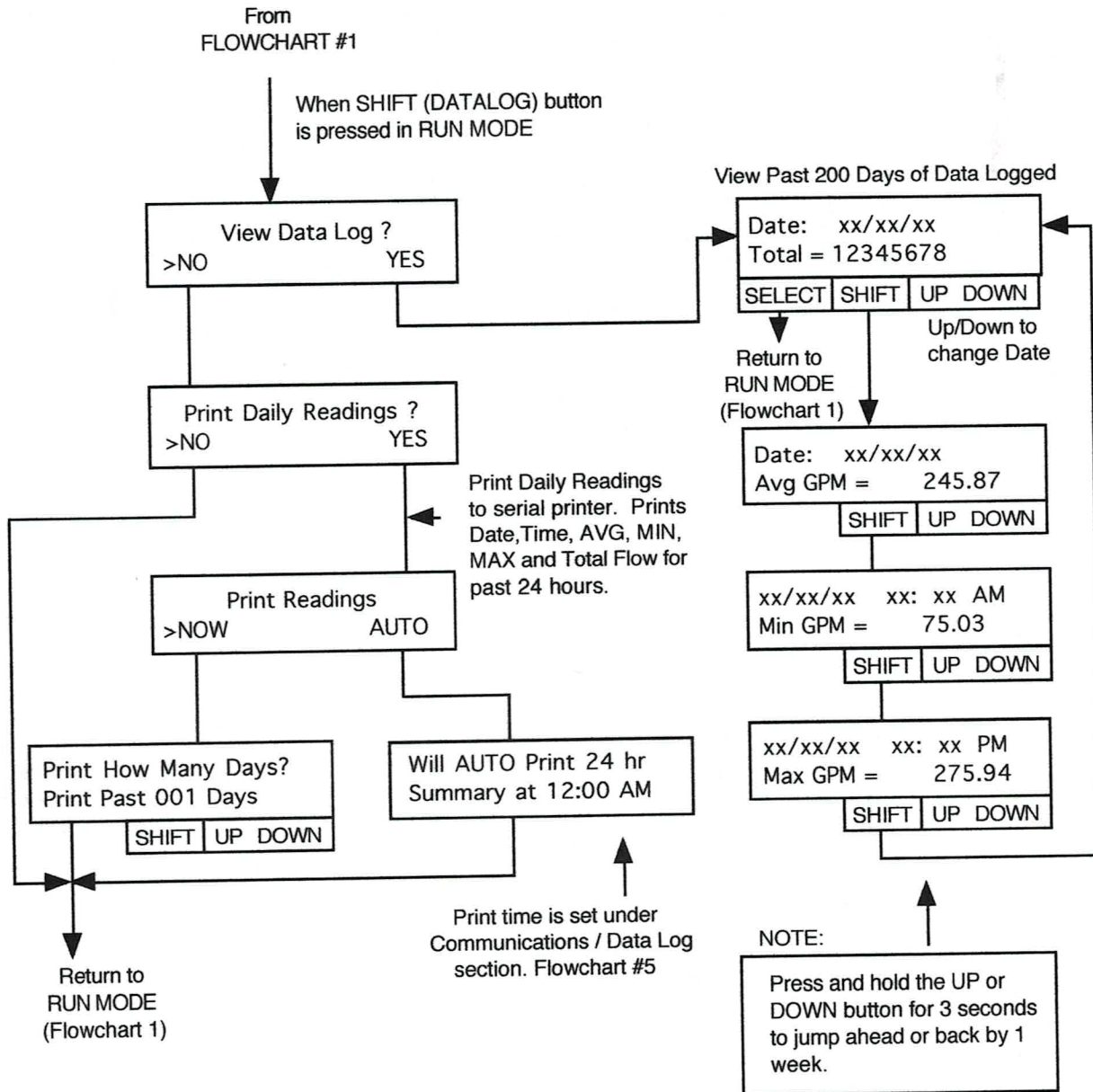
PDS-360 PROGRAM FLOWCHART #7

SET THE 4-20 mA OUTPUTS



PDS-360 PROGRAM FLOWCHART #8

N/A on 360DX



Display Warnings - 360 and 360DX systems

- Echo Signal Lost!
Check Sensor & Wires
- Temperature Error!
Check Probe & Wires
- Check Sensor Wiring!
Echo & Temp ERROR...

If the PDS-360 or 360DX system loses the ECHO return signal or senses a temperature error (greater than 140° F) or both, 1 of the 3 warnings will be displayed. If this occurs, check the sensor mounting, installation and wire connections / splices for damage or sensor misalignment.

Other causes of error could be defective sensor and/or temp probe, malfunction of ultrasonic card or other. Call Factory for assistance.

Press any button to remove warning.