

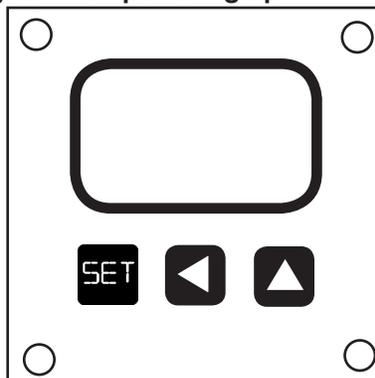
The FT420 flow computer comes with factory-set parameters for K-factor, pulse output, 4-20 mA output, precision (number of decimals) of display, and time units. These operational parameters can be changed by the operator (except when Passcode Protection is invoked); the procedures for these main menu functions are described in detail in the FT420 Instruction Manual and are not repeated here.

In addition to the customer-controlled operations described above, there are a series of administration menus that can be accessed by the Seametrics dealer in order to change basic functionality of the FT420:

<b>Operation Mode:</b>	<b>Main Menu Function</b> <i>(Details in Instruction Manual):</i>	<b>Administration Menu Functions</b> <i>(Details described in this document):</i>
SET K	Adjust K-Factor numeric value	Lock/unlock user access to changing the K-Factor
either/or [ SET P SET A	either/or [ Set scale of pulses in pulse output Set high or low flow rate at which flow alarm triggers	Three choices: pulse output, high flow alarm, or, low flow alarm Three choices: pulse output, high flow alarm or, low flow alarm
SET 20	Set flow range over which 4-20 mA output is desired	Refine accuracy of 4-20 mA output reading using a current meter
SET D	Choose number of decimals for display	Enable or disable the resettable total function
SET TIME	Choose time units over which flow is measured	Change jitter time (period of time to ignore random pulses in full, non-flowing pipe), filter time (amount of display dampening or "smoothing" of reading), and volumetric units

**Procedures for Accessing Administration Menus and Adjusting Values**

- To move from one (main menu) operation mode to another, use the SET key.  
 NOTE: The internal processor scans the front panel every one second - this may cause a "lag" in button response.
- To access the administration menu behind each (main menu) operation mode, press and hold all three buttons (SET, LEFT ARROW, UP ARROW in order) for approximately five seconds.
- To select among alternative (either/or) selections for a particular function, use the UP ARROW key.
- When changing a multi-digit numeric value, select the digit to be changed by using the LEFT ARROW key.
- To adjust a numeric value up or down, use UP ARROW key (see each function for specific details about that adjustment).
- **IMPORTANT: No settings changes will be retained until you have completed the entire sequence, ending on the screen first displayed when powering up.**



**OPERATION MODE**  
(MAIN MENU)

Display when powered up



Set K



**ADMINISTRATION MENUS**

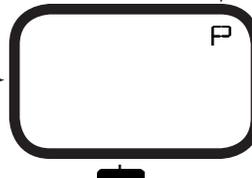
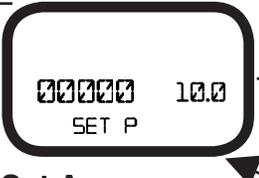
None - Press **SET** to go to the menus.

**Important Note:** The FT420 menus will “time out” after two minutes’ inactivity. If this happens, you will need to begin again.

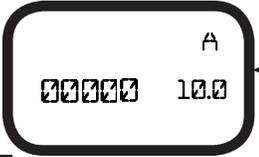
Press **▲** to choose between Lock and Unlock K-factor resettability. (**Note:** If the FT420 has been Passcode-protected you will not be able to toggle between UL and L screens. Instead, use **▲** to move to the Passcode screen. Follow “Using the Passcode” in the *FT420 Passcode Protection* document to enter your passcode. When finished, press **SET** to return to Operation Mode (Main Menu), and **SET** to advance to the next Operation Mode.

Press **▲** to choose among Pulse Output, Alarm High, and Alarm Low. When you have made your selection, press **SET** to return to EITHER Set P Mode (if you have chosen P (Pulse Output Mode) in the administration menu, OR Set A (flow alarm rate) if you have chosen Alarm High or Alarm Low. In either of these operation modes (Set P or Set A), use **▲** to adjust your values (to choose your pulse output rate (Set P) or the flow rate above (AL HI) or Below (AL LO) at which the alarm will trigger. **NOTE:** Under AL HI or AL LO, the scaled pulse output circuit will close and maintain contact as long as the condition meets the HI/LO parameter. Press **SET** to advance to the next operation mode.

Set P



Set A



either/or

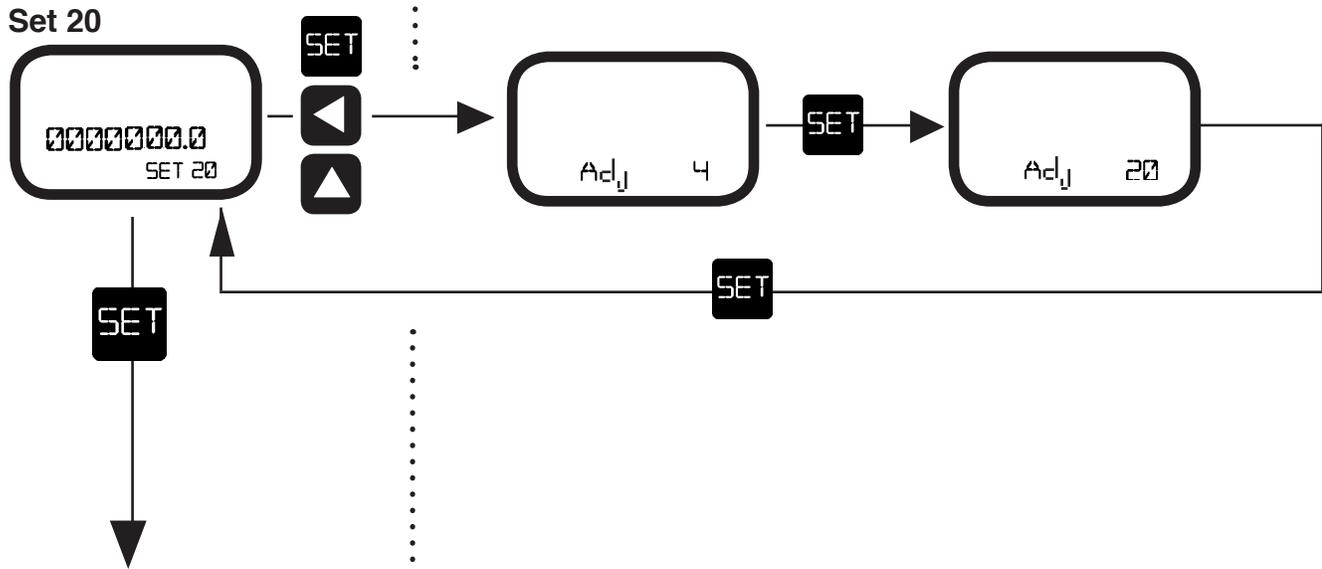


either/or

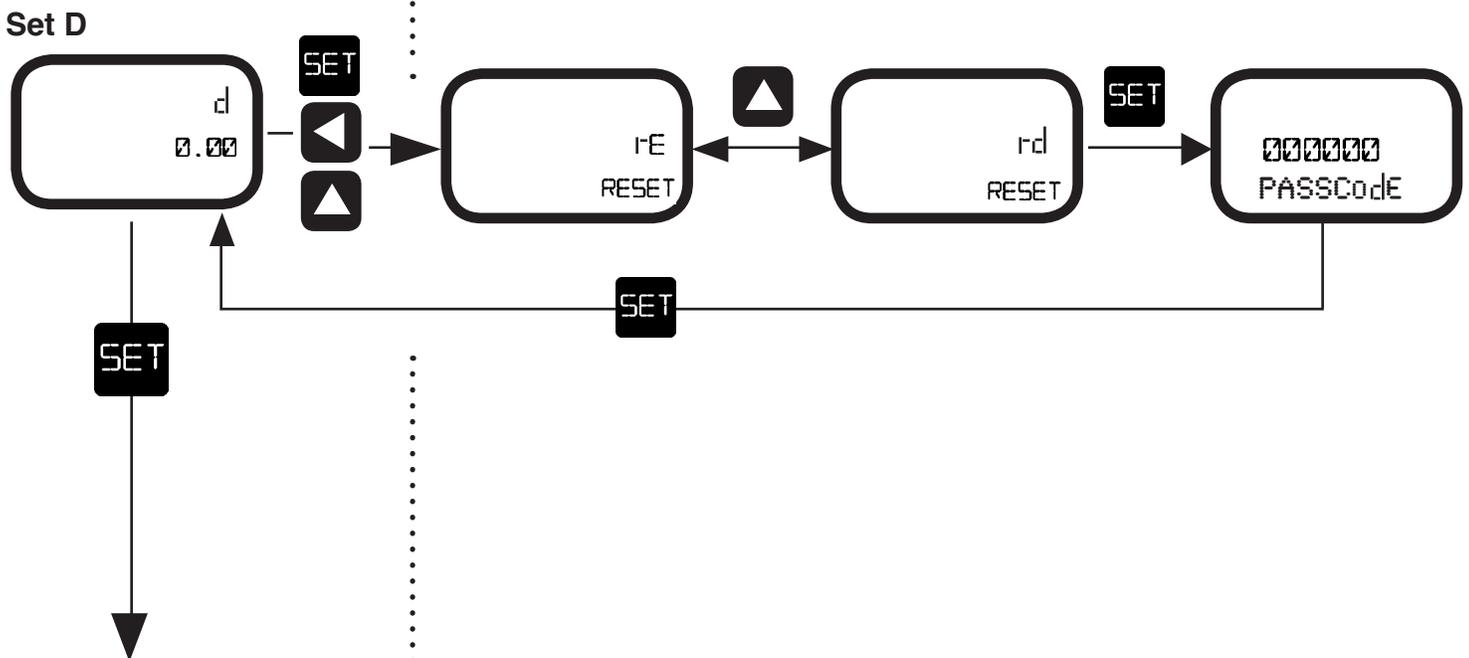
**OPERATION MODE**  
(MAIN MENU)

**ADMINISTRATION MENUS**

With your FT420 connected to a current meter, press **▲** to make incremental adjustments in the Adj 4 screen until it reads exactly 4. (The **▲** will increase the number incrementally to a point, and then jump below 4 again, so if you start or move above 4, keep pressing **▲** until you reach 4 again). Press **SET** to move to the Adj 20 screen and use **▲** to make incremental adjustments in the same way, until it reads exactly 20. Press **SET** to return to Operation Mode (Main Menu) and **SET** to advance to the next Operation Mode.



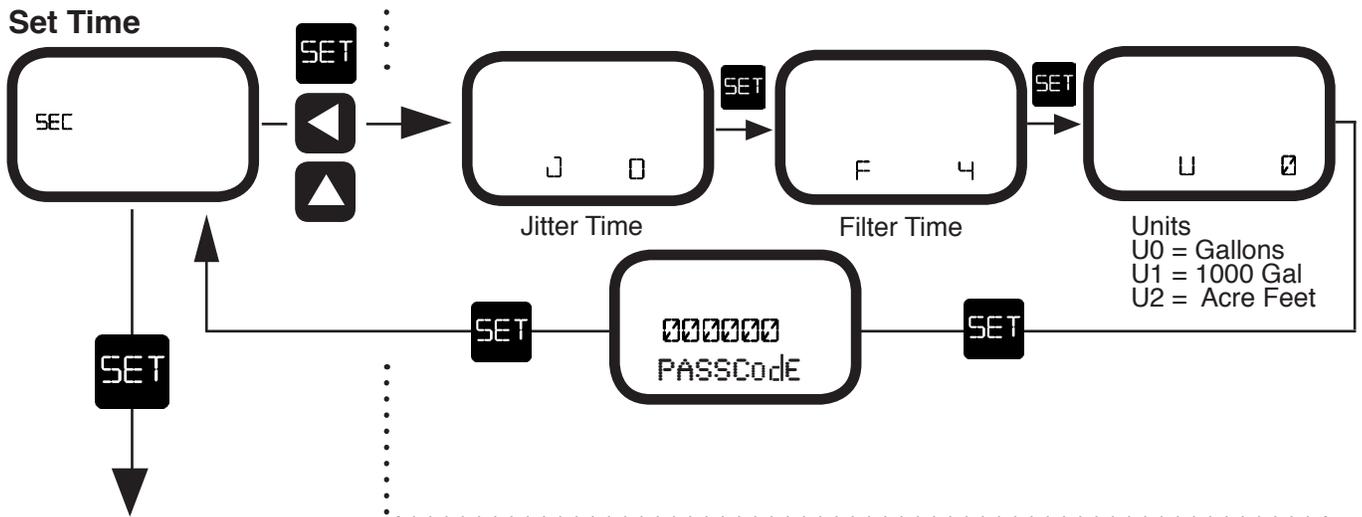
Press **▲** to choose from a non-resettable total (rd = reset disabled), and a resettable total (RE = reset enabled). When finished, press **SET** to return to Operation Mode (Main Menu). Press **SET** again to advance to the next operation. NOTE: with reset disabled, "RESET" no longer shows on display.



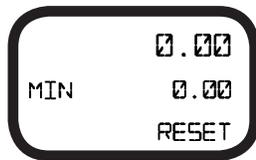
**OPERATION MODE**  
(MAIN MENU)

**ADMINISTRATION MENUS**

Press **▲** to adjust Jitter Time (period of time to ignore random pulses in full, non-flowing pipe). Press **SET** to advance to Filter Time screen.  
 Press **▲** to adjust Filter Time (amount of display dampening, or “smoothing” of reading) from 0-9. Press **SET** to advance to Units of Measure screen.  
 Press **▲** to select Units of Measure (Gallons, Gallons x 1000, acre feet).  
 Press **SET** to return to Operation Mode (Main Menu). Press **SET** to return to Starting Display. NOTE: If units of measure is changed, total should be reset to insure changes are implemented. Selection of U1 or U2 is not indicated on main menu.



Display when powered up



Finished, or begin again.



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