

***Flow\_Trak 3.0***

**Volume 6**

**Controls & Parameters**

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# Meter Controls

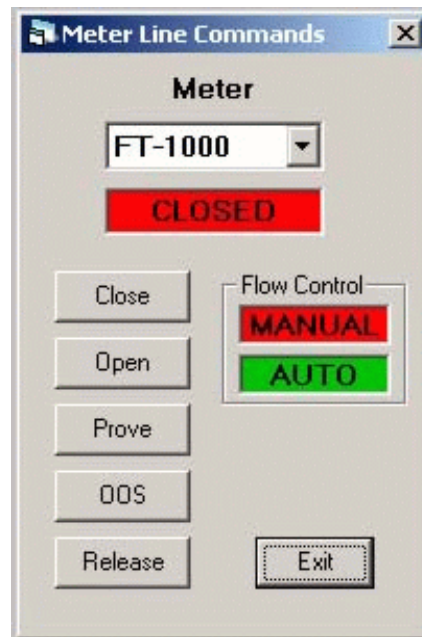
This function is implemented as a manual tracking system in Revision 2.0. Meter line commands are issued, but the valve status is totally within the Flow\_Trak application. Valve states are saved so that if the program is closed and then restarted, the last status will again be displayed.



**Figure 1**  
Control Menu Display

## Meter Line Control

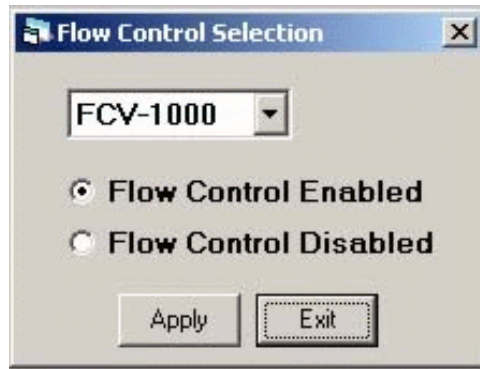
The meter line control allows for selection of the specific meter line for which the current status is displayed. Five selection buttons are provided excluding the Exit button. These buttons allow for Open, Close, Prove, Out of Service, and Release functions. By clicking the desired button, the meter valves will assume the correct status.



**Figure 2**  
Meter Line Command Display

## Flow Control Enable/Disable

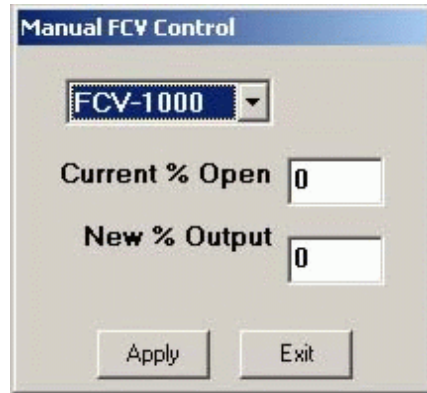
This function allows an individual meter to be placed wither in automatic or manual flow control mode. By default the entire system can be placed in automatic flow control, but with this command, an individual meter run can be placed into manual.



**Figure 3**  
Flow Control Command Display

## Manual FCV Position

This function allow a flow control valve to be set to a manual position when not in automatic flow control. The current position is given and allows the operator to enter a manual value.



**Figure 4**  
Manual FCV Control Display

# Parameters

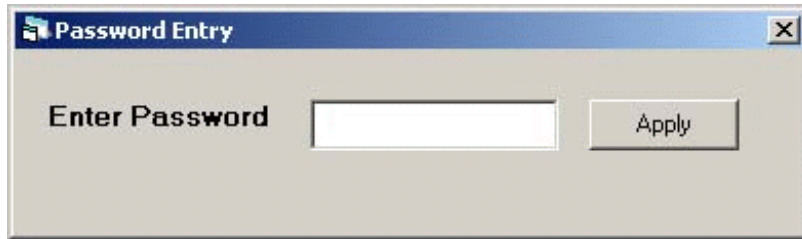
The parameters selection button provides for the selection of several operator function which require the operator to be logged in with a user password. The first selection is the Logon/Logoff selection.



**Figure 5**  
Parameter Menu Display

# Logon/Logoff

This menu selection allows the operator to either log on to the system to initiate parameter entry, or to log out prior to the normal time out for the password state. Password are maintained in the configuration section. When an operator either logs in or out, an entry is also made in the event log to record this event.



**Figure 6**  
Password Entry Display

When the system starts, all functions are limited to a display only security levels with the blue color in the page banner as seen below.



**Figure 7**  
Normal Display Only Security

When an operator password is entered, the banner will change to a green color indication that operator commands can be entered.



**Figure 8**  
Operator Display Security

When an engineering password is entered the banner changes to a red color indicating full access.



**Figure 9**  
Engineering Security Level

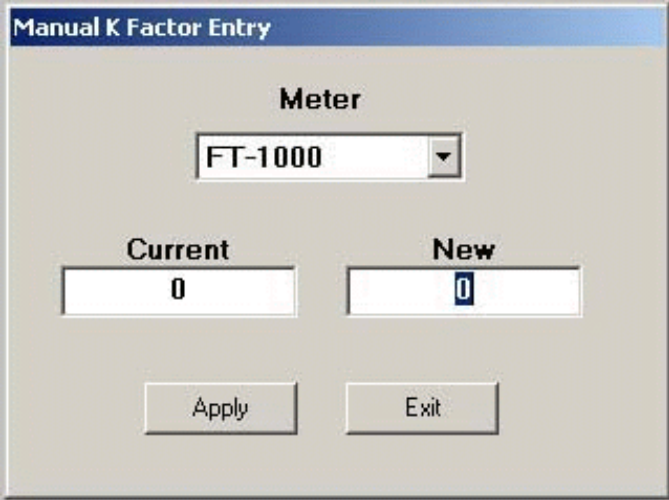


## Meter Parameters

The Meter Parameters selection gives the operator the ability to override several parameters for the system when a transmitter fails or for testing. The following are the various items which can be written to the flow computer for each individual meter.

### Manual Meter K Factor

Manual K Factor can be downloaded to the flow computer through this function. The specific meter is selected by tag name and the current value is displayed. The operator enters the desired value followed by clicking the apply button. The message is interleaved in the polling sequence and verification of the new value being received is made following the message for change. Once the operator views the current value to be changed to the desired value, the flow computer has been set.

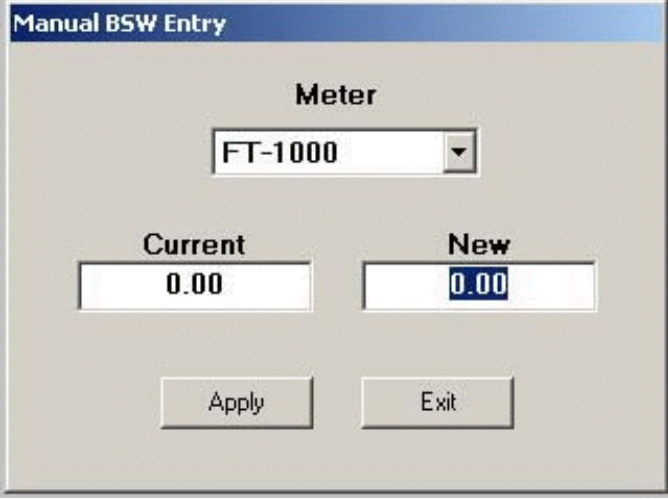


The screenshot shows a software dialog box titled "Manual K Factor Entry". At the top, the word "Meter" is centered above a dropdown menu that currently displays "FT-1000". Below this, there are two input fields: "Current" on the left and "New" on the right. The "Current" field contains the number "0", and the "New" field contains the number "0" with a blue cursor. At the bottom of the dialog, there are two buttons: "Apply" on the left and "Exit" on the right.

**Figure 10**  
Manual Meter K-Factor Entry Display

## Manual BSW

Manual BSW values can be downloaded to the flow computer through this function. The specific meter is selected by tag name and the current value is displayed. The operator enters the desired value followed by clicking the apply button. The message is interleaved in the polling sequence and verification of the new value being received is made following the message for change. Once the operator views the current value to be changed to the desired value, the flow computer has been set.

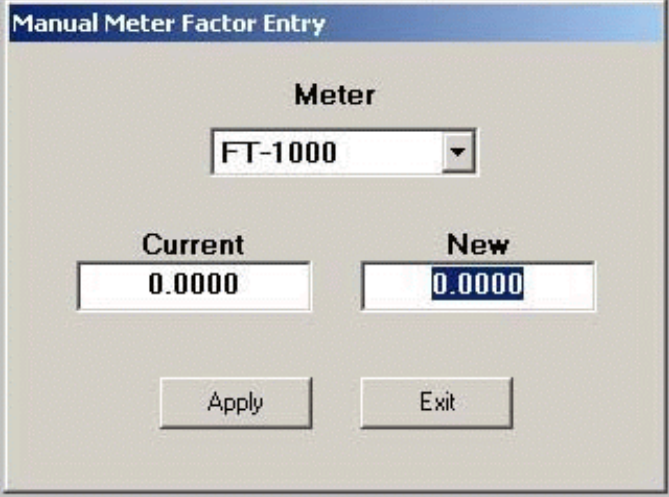


The image shows a software dialog box titled "Manual BSW Entry". Inside the dialog, there is a section labeled "Meter" with a dropdown menu currently showing "FT-1000". Below this, there are two input fields: "Current" with the value "0.00" and "New" with the value "0.00". The "New" field has a blue selection highlight. At the bottom of the dialog, there are two buttons: "Apply" and "Exit".

**Figure 11**  
Manual BS&W Entry Display

## Manual Meter Factor

Manual Meter Factor can be downloaded to the flow computer through this function. The specific meter is selected by tag name and the current value is displayed. The operator enters the desired value followed by clicking the apply button. The message is interleaved in the polling sequence and verification of the new value being received is made following the message for change. Once the operator views the current value to be changed to the desired value, the flow computer has been set.

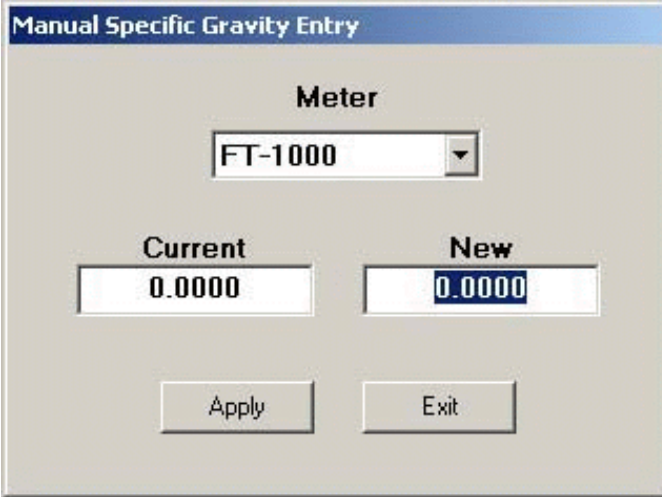


The image shows a software interface window titled "Manual Meter Factor Entry". At the top, under the heading "Meter", there is a dropdown menu with "FT-1000" selected. Below this, there are two input fields: "Current" with the value "0.0000" and "New" with the value "0.0000". At the bottom of the window, there are two buttons: "Apply" and "Exit".

**Figure 12**  
Manual Meter Factor Entry Display

# Manual Gravity

Manual Gravity can be downloaded to the flow computer through this function. The specific meter is selected by tag name and the current value is displayed. The operator enters the desired value followed by clicking the apply button. The message is interleaved in the polling sequence and verification of the new value being received is made following the message for change. Once the operator views the current value to be changed to the desired value, the flow computer has been set.



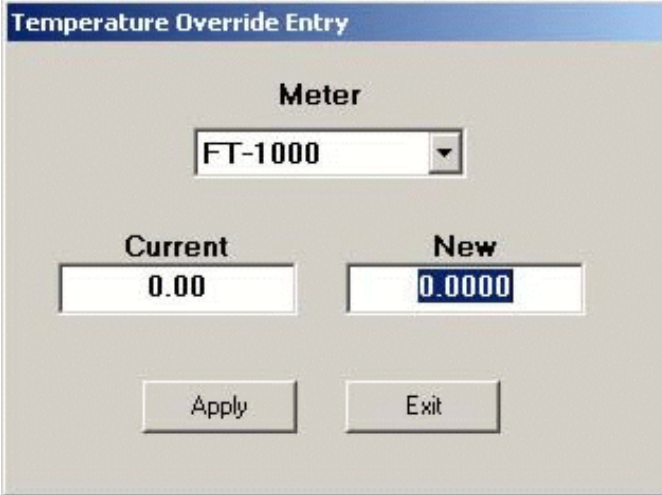
The image shows a software dialog box titled "Manual Specific Gravity Entry". It features a "Meter" dropdown menu with "FT-1000" selected. Below this are two input fields: "Current" with the value "0.0000" and "New" with the value "0.0000". At the bottom are "Apply" and "Exit" buttons.

| Meter   | Current | New    |
|---------|---------|--------|
| FT-1000 | 0.0000  | 0.0000 |

**Figure 13**  
Manual Gravity Entry Display

## Temperature Override

An override temperature can be downloaded to the flow computer through this function. The specific meter is selected by tag name and the current value is displayed. The operator enters the desired value followed by clicking the apply button. The message is interleaved in the polling sequence and verification of the new value being received is made following the message for change. Once the operator views the current value to be changed to the desired value, the flow computer has been set.

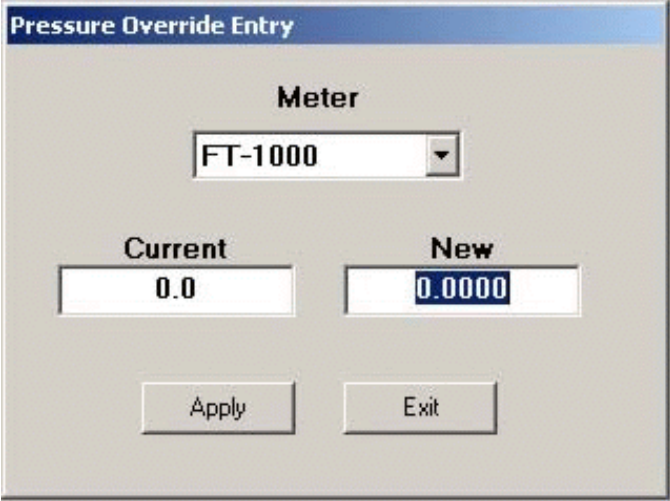


The image shows a software window titled "Temperature Override Entry". Inside the window, there is a section labeled "Meter" with a dropdown menu currently showing "FT-1000". Below this, there are two input fields: "Current" with the value "0.00" and "New" with the value "0.0000". At the bottom of the window, there are two buttons: "Apply" and "Exit".

**Figure 14**  
Temperature Override Entry Display

## Pressure Override

An override pressure can be downloaded to the flow computer through this function. The specific meter is selected by tag name and the current value is displayed. The operator enters the desired value followed by clicking the apply button. The message is interleaved in the polling sequence and verification of the new value being received is made following the message for change. Once the operator views the current value to be changed to the desired value, the flow computer has been set.



The screenshot shows a software window titled "Pressure Override Entry". Inside the window, there is a section labeled "Meter" with a dropdown menu currently showing "FT-1000". Below this, there are two input fields: "Current" with the value "0.0" and "New" with the value "0.0000". At the bottom of the window, there are two buttons: "Apply" and "Exit".

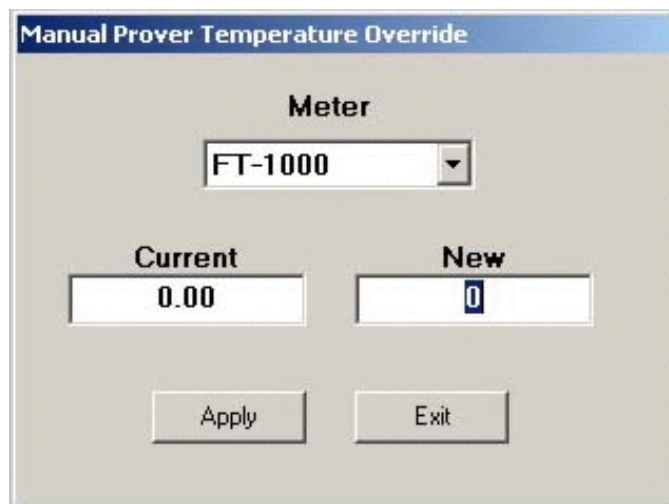
**Figure 15**  
Pressure Override Entry Display

## Proving Parameters

The Proving Parameters selection gives the operator the ability to override several parameters for the system when a transmitter fails or for testing. The following are the various items which can be written to the flow computer for each individual meter.

### Temperature Override

The prover temperature can be downloaded to the flow computer through this function. The specific meter is selected by tag name and the current value is displayed. The operator enters the desired value followed by clicking the apply button. The message is interleaved in the polling sequence and verification of the new value being received is made following the message for change. Once the operator views the current value to be changed to the desired value, the flow computer has been set.

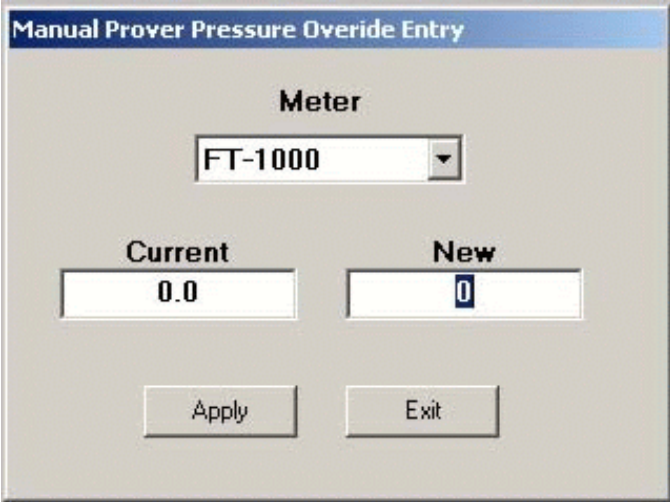


The image shows a software dialog box titled "Manual Prover Temperature Override". It features a "Meter" dropdown menu with "FT-1000" selected. Below this are two input fields: "Current" with the value "0.00" and "New" with the value "0". At the bottom, there are two buttons: "Apply" and "Exit".

**Figure 16**  
Prover Temperature Entry Display

## Pressure Override

The prover pressure can be downloaded to the flow computer through this function. The specific meter is selected by tag name and the current value is displayed. The operator enters the desired value followed by clicking the apply button. The message is interleaved in the polling sequence and verification of the new value being received is made following the message for change. Once the operator views the current value to be changed to the desired value, the flow computer has been set.



The image shows a software dialog box titled "Manual Prover Pressure Override Entry". It features a "Meter" dropdown menu with "FT-1000" selected. Below this are two input fields: "Current" with the value "0.0" and "New" with the value "0". At the bottom are two buttons: "Apply" and "Exit".

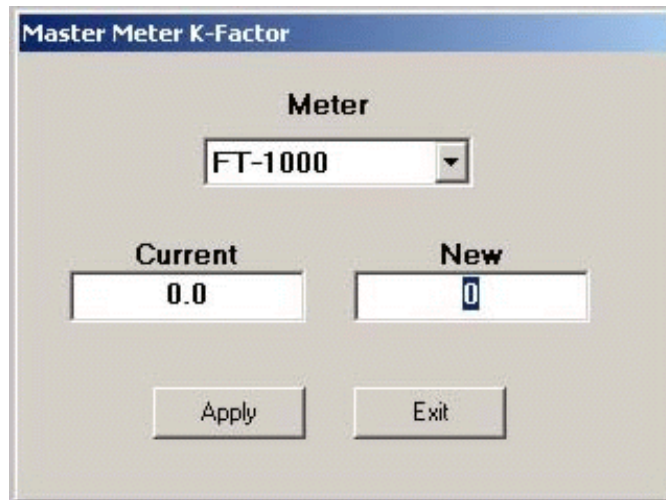
| Manual Prover Pressure Override Entry |      |
|---------------------------------------|------|
| Meter                                 |      |
| FT-1000                               |      |
| Current                               | New  |
| 0.0                                   | 0    |
| Apply                                 | Exit |

**Figure 17**  
Prover Pressure Entry Display



## Master Meter K Factor Entry

If the prover has been defined as a master meter, then the master meter K Factor can be downloaded to the flow computer through this function. The specific meter is selected by tag name and the current value is displayed. The operator enters the desired value followed by clicking the apply button. The message is interleaved in the polling sequence and verification of the new value being received is made following the message for change. Once the operator views the current value to be changed to the desired value, the flow computer has been set.

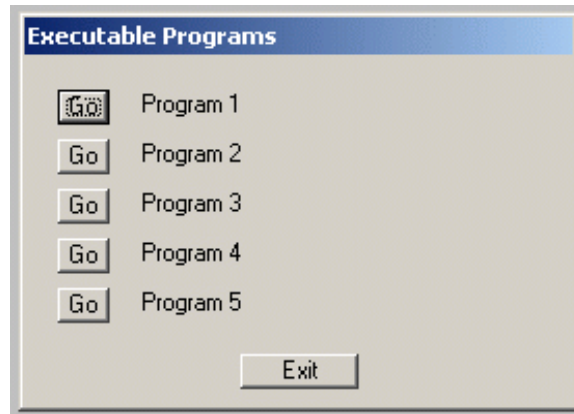


The screenshot shows a software window titled "Master Meter K-Factor". Inside the window, there is a section labeled "Meter" with a dropdown menu currently showing "FT-1000". Below this, there are two input fields: "Current" with the value "0.0" and "New" with the value "0". At the bottom of the window, there are two buttons: "Apply" and "Exit".

**Figure 18**  
Master Meter K Factor Entry Display

# Special Programs

The 3.0 version has a special menu display which allows for up to five programs to be started from the system. The display is configured via the configuration section. By simply clicking the “Go” button next to each title, the program will be started in the Windows task bar.



**Figure 19**  
Special Programs Display