

SOFTWARE

FT1 VIEW™

Free PC-Based Software Tool

for the FT1 Thermal Gas Mass Flow Meter



Software Instruction Manual

Document #106515

Rev G



This publication must be read in its entirety before performing any operation. Failure to understand and follow these instructions could result in serious personal injury and/or damage to the equipment. Should this equipment require repair or adjustment beyond the procedures given herein, contact the factory at:

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Fox Thermal FT1 Manuals:

- **Model FT1 Instruction Manual**

All Fox Thermal Manuals and software available in English only.

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FT1 View™

Introduction

Introduction

Thank you for purchasing the Model FT1 Thermal Gas Mass Flow meter from Fox Thermal. The Model FT1 is one of the most technically advanced flow meters in the world. Extensive engineering effort has been invested to deliver advanced features, accuracy measurement performance, and outstanding reliability.

The FT1 View™ software allows users to easily display data and configure the FT1 to their specific application parameters. The software can also access the Gas-SelectX® menu, run the CAL-V™ calibration validation diagnostic test, and log flow/temperature data.

The Model FT1 is available with two different options: the RS485 Communication option or the Pulse Output option. The FT1 View™ software automatically adapts to the features in the FT1 meter.

This Manual contains the installation and operation instructions for the FT1 View™ Software.

This manual is divided into the following sections: Introduction, Installation, Operation, Definitions, and Index.

Installation

Open the enclosure by unscrewing the enclosure cap, loosen the two captive screws on the display assembly and rotate it open. Connect the FT1 to a PC with a USB (Type-A / Mini-B) cable. If the PC is connected to the internet and running Windows®, the PC will try to automatically load the VCP driver. If the driver does not load automatically, download the VCP driver at: <https://ftdichip.com/drivers/vcp-drivers/>



NOTE! The latest version of the FT1 View™ software is available for download at www.foxthermal.com/products/ft1.php#ft1view

Fig. 2.1: Online Download Location for FT1 View™ Software

1 - Choose the FT1 View™ Software Sub-menu

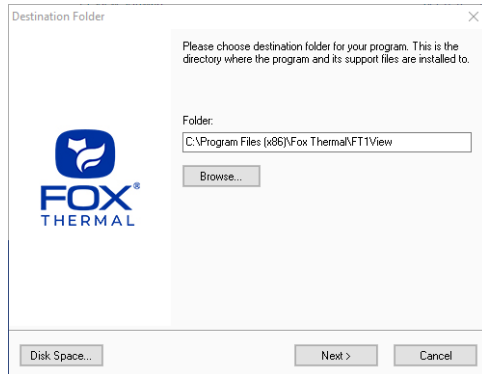
The screenshot shows the Fox Thermal website interface. At the top left is the Fox Thermal logo. A navigation menu includes: HOME, ABOUT US, PRODUCTS, APPLICATIONS, SERVICES, LITERATURE / DOWNLOADS, CONTACT US, and COVID-19. A search bar and a 'GET QUOTE' button are on the right. The main content area is titled 'Fox Thermal Model FT1 Thermal Gas Mass Flow Meter'. It features an image of two technicians at a computer with the caption 'Access the FT1 View™ Software Using a PC'. Below this image is a button labeled 'FT1 View™ Software' with a download icon. To the right, a 'Model FT1' dropdown menu is open, showing 'FT1 View™ Software' as the selected option. Below the menu is a 'Configure an FT1' button. Text on the page describes the software's features and provides a note about Microsoft Office requirements and a USB driver requirement.

2 - Click the button to download software

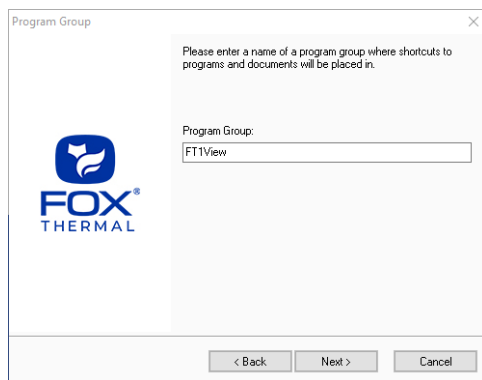
FT1 View™

Installation

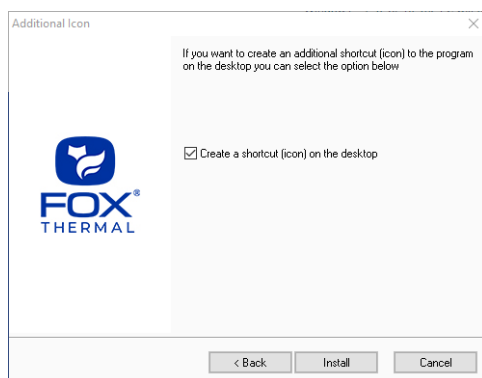
To install the FT1 View™ program, run the downloaded "ft1-view-setup.exe" file. After clicking "Next" the screen will show:



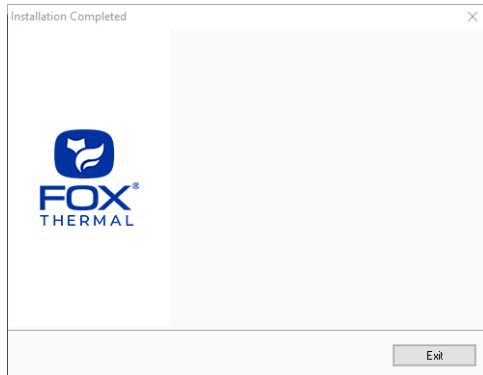
Select the folder in which you wish to install FT1 View™, then click "Next".



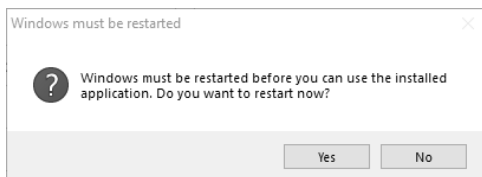
Please enter a name for the Program Group or use the default FT1View name and click "Next".



To find the program easily, you may choose to create a shortcut icon for your PC desktop by placing a check in the checkbox. Click "Install" to continue.



When the program is done installing, click "Exit".



To complete the installation process, close all applications, and restart your computer. The FT1 View Software will be ready to use after the computer has restarted.

FT1 View™

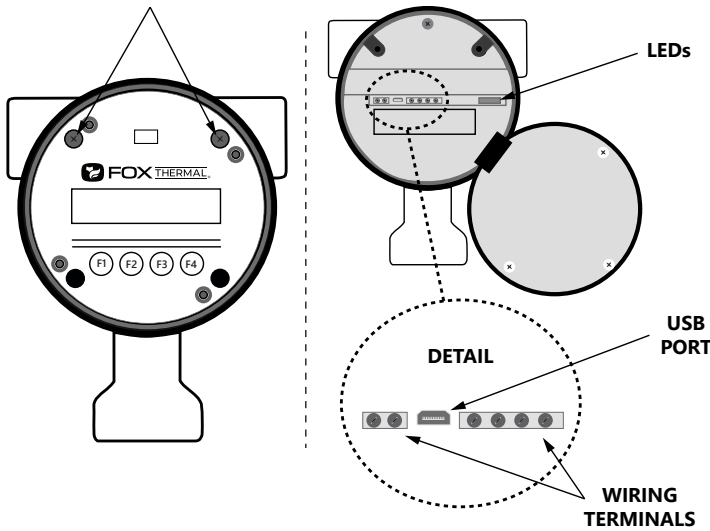
Startup

Power on the Meter

Refer to the FT1 Instruction Manual for Power input wiring instructions. The FT1 must be powered on to communicate with the FT1 View™ software tool.

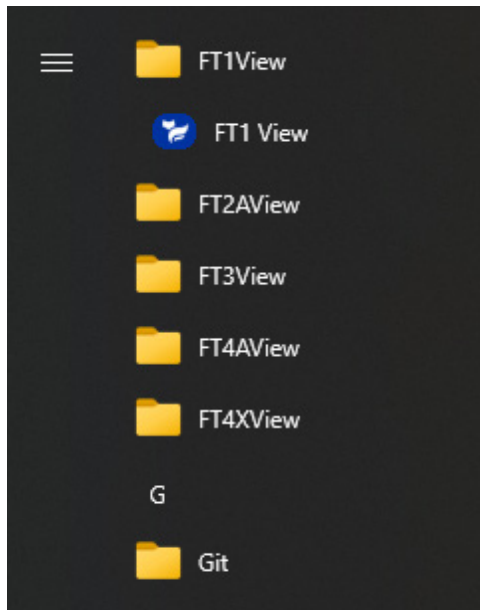
Connect the FT1 to a PC or Laptop via USB

Be sure to have your FT1 flow meter connected by USB to a PC or laptop that has FT1 View™ software successfully downloaded to the operating system. Open the enclosure by unscrewing the enclosure cap, loosen the two captive screws on the display assembly and rotate it open. The USB port is accessible on the electronics board beneath the display.



Startup FT1 View™ Software

After re-boot and connecting to a PC via USB, startup the FT1 View™ software accessible in the Windows "Start" button or search bar.



COM Port Assignment

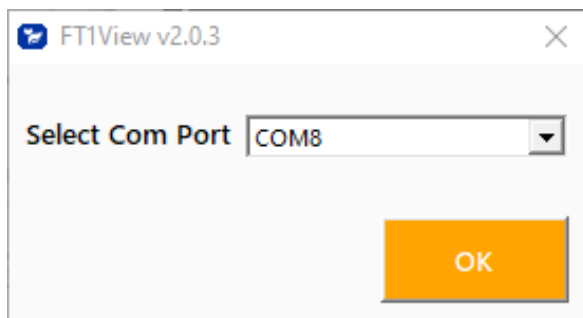
Be sure to have your FT1 connected by USB to a PC or laptop before opening FT1 View™. Upon opening FT1 View™ for the first time, Windows® will assign a "virtual COM port". The COM port number that has been assigned will appear automatically in the drop down box.

If the correct COM Port does not appear, go to Control Panel/Device Manager and click on Ports (COM & LPT). The COM port number should be displayed under the USB symbol.

If prompted, enter the assigned COM port in FT1 View™ by using the drop down menu and press **OK**.

NOTE! The FT1 Meter must be plugged into the computer for the USB port to be detected.

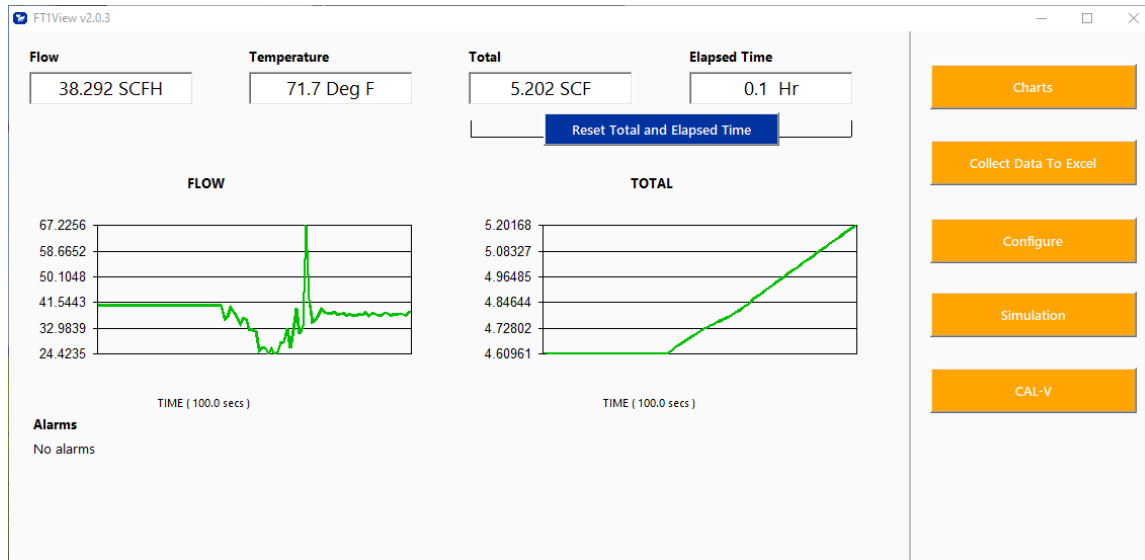
Fig. 3.1: COM Port Selection Window



Main Screen

The image below depicts the main screen that appears upon entering FT1 View™.

Fig. 4.1: FT1 View™ Main Screen



Flow & Temperature

FT1 View™ will show values for flow and temperature in the pipe in real time based on how the flow meter has been configured (in this case, SCFH and °F). These values are in the upper left of the screen.

Total & Elapsed Time

Flow total and Elapsed Time are shown in the upper right of the screen and can be reset with the button just underneath the displayed values.

Charts Button

This calls up two charts that can be configured for flow, temperature, or total flow. Each chart can be individually enlarged and re-scaled from the original default settings.

NOTE! Data on the screen is refreshed at user selected update rate. See p. 12 for more information on setting up charts.

Collect Data to Excel Button

Selecting the Collect Data to Excel button allows all selected data to be logged to an Excel® file at the specified sample time. All readings are time/date stamped. For more information on using the data collection function, refer to "Collect Data to Excel" on p. 14.

Configure Button

This function is used to adjust the application parameters of the FT1. The application parameters can be set using FT1 View™ software or manually using the FT1 display. For more information on configuring application parameters, refer to p. 16.

Simulation Button

This function can be used to verify that all the flow meter outputs are working properly. The easiest way to perform this check is to enter a specific temperature or flow rate. The corresponding analog outputs can be verified using a DMM and using a timer for the pulse. Refer to p. 22 for more information on how to use the Simulation function.

Calibration Validation Diagnostic Test Section**CAL-V™ Button**

Calibration validation allows customers to validate the accuracy and functionality of the meter in the field with a push of a button. By performing a simple test, the operator can verify that the meter is running accurately.

The CAL-V™ calibration validation test is explained in greater detail on p. 24.

Alarms

The unit can be configured for high/low alarms for either flow or temperature. The "alarms window" displays any alarms or warnings.

Charts Settings

From the main screen, click on "Charts". Two charts will appear side-by-side. Each chart can be selected for flow, temperature or total flow.

Fig. 4.2: Chart Settings Window - Chart 1

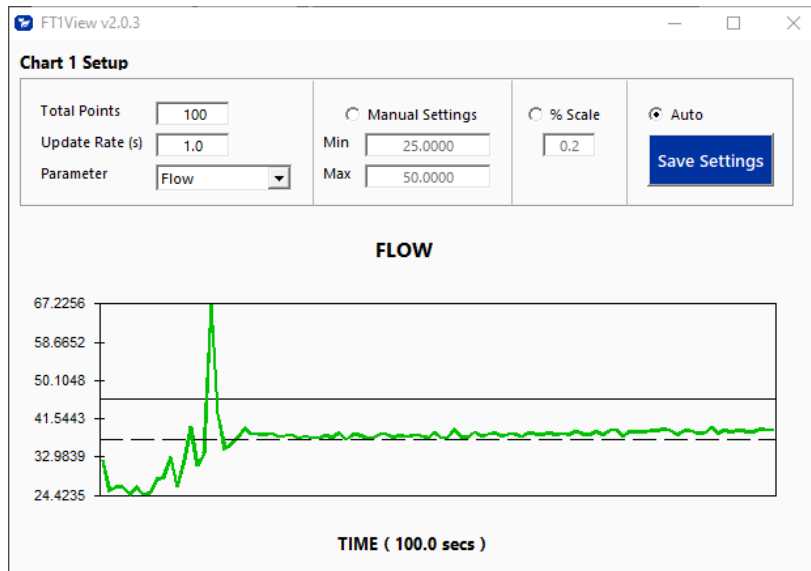
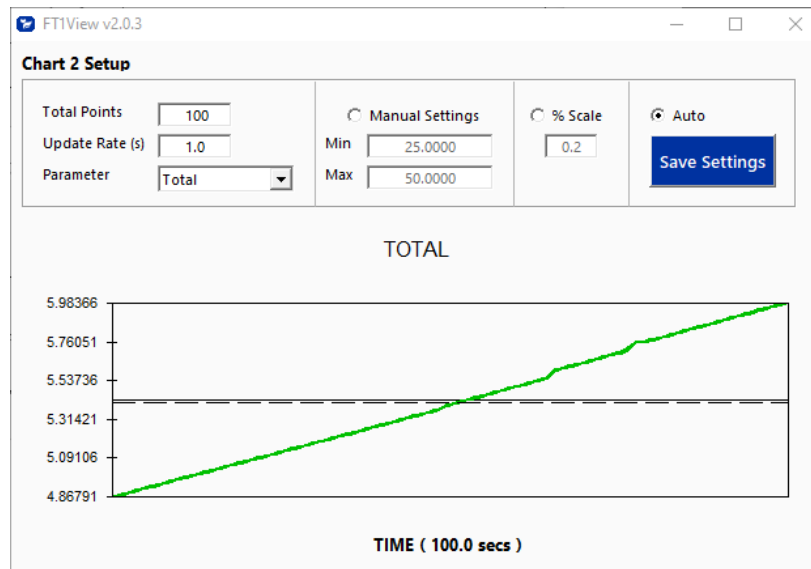


Fig. 4.3: Chart Settings Window - Chart 2



Total Points

The total points specifies the number of points plotted on the graph. Older data is automatically omitted.

Update Rate

The update rate controls the data refresh rate.

Parameters

Flow, temperature or total flow can easily be selected for charting.

Manual Chart Setting

The Manual mode allows a user to input min/max values for chart scaling. When entering new values, click on Save Settings for them to take effect.

Percent (%) Scale

This sets the scale to a plus/minus specified percentage from the initial measured value. Typically, the minimum/maximum is scaled at plus/minus 10% of that initial value.

Automatic Chart Setting

Automatic mode lets the program adjust the scaling on a real-time basis based on the entire range of values.

Save Settings

Click the Save Settings button to save the chart settings to the main screen window. These settings can then be closed by clicking on the "X" at the top right corner of the window.

Collect Data to Excel

The Data Logger screen can be accessed from the main screen. Clicking the "Collect Data to Excel" button will prompt the user for a password. Enter a Level 1 (1234) or Level 2 (9111) password and the Data Collection window will appear.

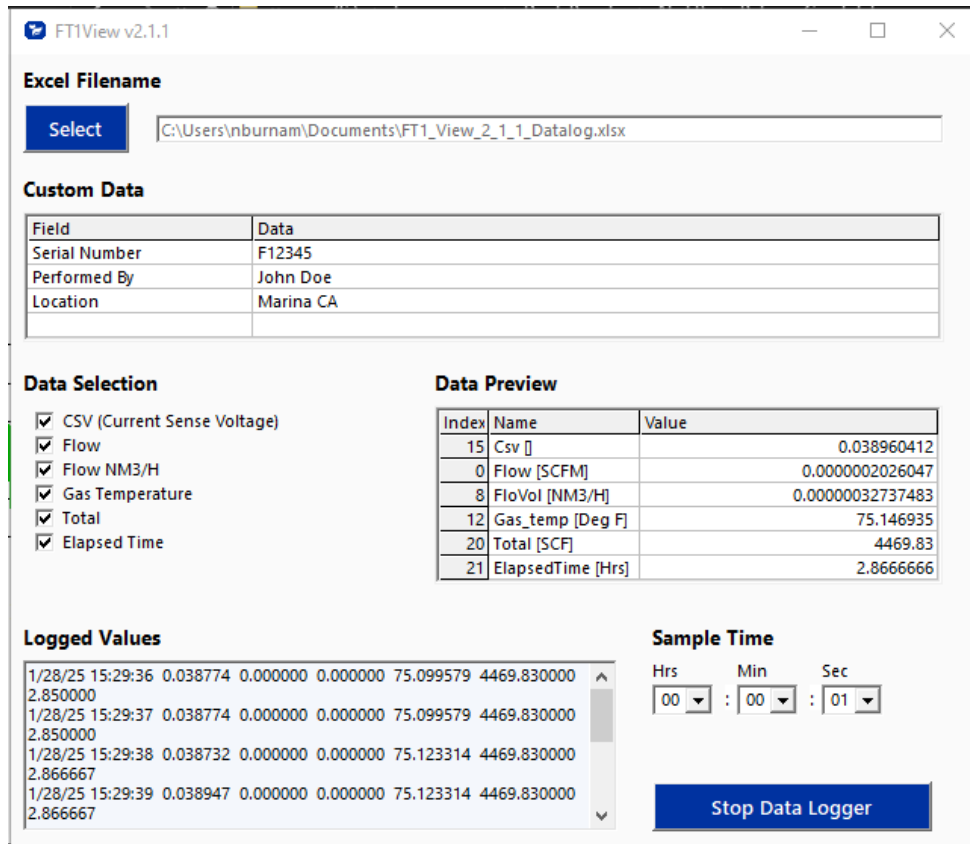
Fig. 4.4: Data Collection Window - Logging Turned Off

The screenshot shows the 'Data Collection Window' in FT1View v2.1.1. The window title is 'FT1View v2.1.1'. It contains several sections:

- Excel Filename:** A 'Select' button and a text field containing the path 'C:\Users\nburnam\Documents\FT1_View_2_1_1_Datalog.xlsx'.
- Custom Data:** A table with two columns: 'Field' and 'Data'. The table is currently empty.
- Data Selection:** A list of checkboxes for selecting data to log: 'CSV (Current Sense Voltage)', 'Flow', 'Flow NM3/H', 'Gas Temperature', 'Total', and 'Elapsed Time'. All are currently unchecked.
- Data Preview:** A table with three columns: 'Index', 'Name', and 'Value'. The table is currently empty.
- Logged Values:** A large empty text area for displaying logged data.
- Sample Time:** Three dropdown menus for selecting the sample time in hours, minutes, and seconds. The current selection is 00 Hrs, 00 Min, and 01 Sec.
- Start Data Logger:** A blue button at the bottom right to initiate data logging.

You may enter custom fields onto the top of the final log file, click on a field to enter the text. Select the sample time from the drop down menu, and then select the required data from the Data Selection list. Select or create a name for the Excel® file and then press the "Start Data Logger" button.

Fig. 4.5: Data Collection Window - Logging Turned On

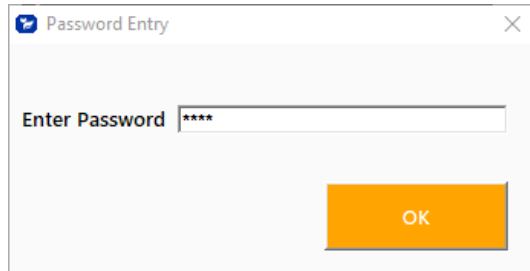


When "Start Data Logger" is pressed, the data is recorded in the specified Excel® file - and also displayed in the Logged Values window. Pressing "Stop Data Logger" ends data acquisition.

Configure

From the main screen, click on the "Configure" button and enter the requested password for either Level 1 (1234) or Level 2 (9111) access.

Fig. 4.6: Password Window



NOTE! Most users will only need access to the Level 1 screen to do basic setting of units, alarms and output scaling.

The FT1 View™ software recognizes the meter configuration automatically. The meter configuration determines whether the screen in Fig 4.7 or 4.8 will appear.

Fig. 4.7: Level 1 Configuration Screen - RS485 Option

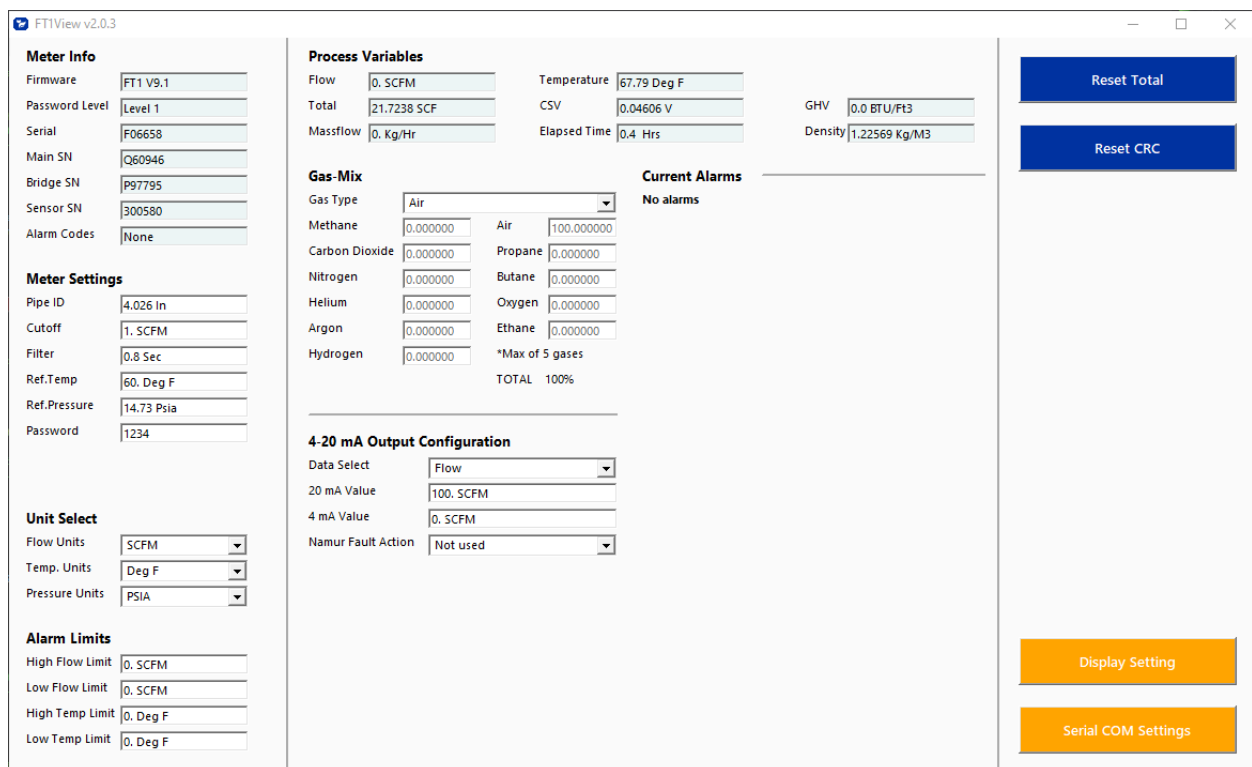
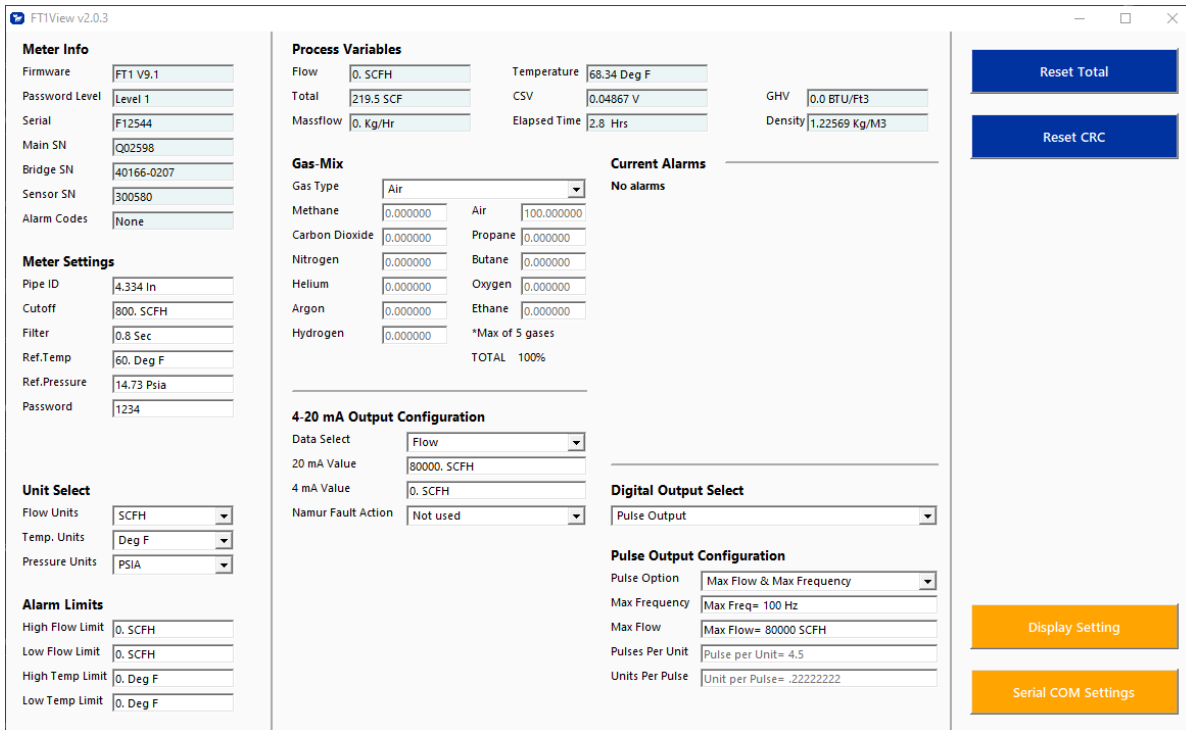


Fig. 4.8: Level 1 Configuration Screen - Pulse Output Option



Meter Info

Firmware: FT1 meter firmware revision level.

Password level: FT1 View Password level entered.

Serial Numbers: Serial numbers of the meter, the main board, bridge and sensor (factory set).

Alarm Codes: Displays the alarm codes as described in the meter manual. These codes are written out in the Current Alarms menu.

Meter Settings

Pipe Inner Diameter (ID): The pipe inner diameter can be entered in either inches or millimeters, depending on whether the flow or mass measurement units selected are metric or US standard. Once entered, the program will automatically recalculate the pipe cross-sectional area for the velocity/flow calculations. A precise ID is required to ensure accurate flow measurement.

Cut-off: A gas flow rate at (or below) the cut-off setting will cause the meter to read zero. Default cut-off is set to 1% of maximum flow value.

Filter: Changing this value will increase or decrease the damping of the flow rate reading. Increase the setting to increase damping. The default setting is 0.8 seconds.

Ref. Temp: Reference Temperature - Reference temperature and pressure are the standard (or normal) temperature and pressure (STP) for which the flow rate is calculated. This is set in the factory according to the customer's original AppID data.

FT1 View™

Operation

Ref. Pressure: Reference Pressure - Reference temperature and pressure are the standard (or normal) temperature and pressure (STP) for which the flow rate is calculated. This is set in the factory according to the customer's original AppID data.

Password: The Level 1 password can be changed to a new value (number or letter characters up to 4 digits).

K-factor: Enter a percent value [-200 to 200] to scale the flow output. Final Flow = Flow + (Flow * K Factor/100)



NOTE! K-factor settings are only available with Level 2 Password

Unit Select

The "Unit Select" section is used to change the desired units of the flow rate, temperature and reference pressure parameters.

Alarm Limits

Users can set both high/low alarms for both flow and temperature. When a limit is reached, an alarm message is displayed. In addition, if the meter's digital output is activated, breaching the alarm limit automatically activates a discrete output to control an external buzzer, light or some other way to alert the operator.

Process Variables

Flow: Current flow rate in selected units

Total: Cumulative mass or volume flow in selected units

Massflow: Current mass flow rate

Temperature: Gas temperature (Fahrenheit or Celsius)

CSV: Current sense voltage of sensor measurement circuit

Elapsed Time: Time since the Totalizer was reset

GHV: Gross Heating Value of measured gas

Density: Density of measured gas

Gas-Mix

This Gas-SelectX® menu allows the user to choose from a list of gases. More information on Gas-SelectX® can be found on p. 21.

4-20mA Output Configuration

The FT1 has one analog 4-20mA output that is configurable for either flow or temperature. Though the FT1 will be scaled for the specific application coming from the factory, FT1 View™ allows the operator to easily re-scale the 4-20mA output as needed.

Digital Output Select

This selection configures the FT1 digital output for either pulses (counts) or as an alarm discrete output.

If the pulse (counts) output is selected, it can be programmed in three different ways using the pull-down menu "Pulse Output Configuration".

- Maximum flow and maximum frequency
- Pulses per Unit
- Units per Pulse



NOTE! This is only available on a meter configured for Pulse Output. If RS485 option has been ordered, the Pulse option is not available.

Reset Total Button

The Reset Total button will clear the total and elapsed time.

Reset CRC Button

CRC (Cyclical Redundancy Check) is a value that verifies that all critical values in the meter's database are good. This check is performed once every minute. The Reset CRC button clears and generates a new value.

Display Setting

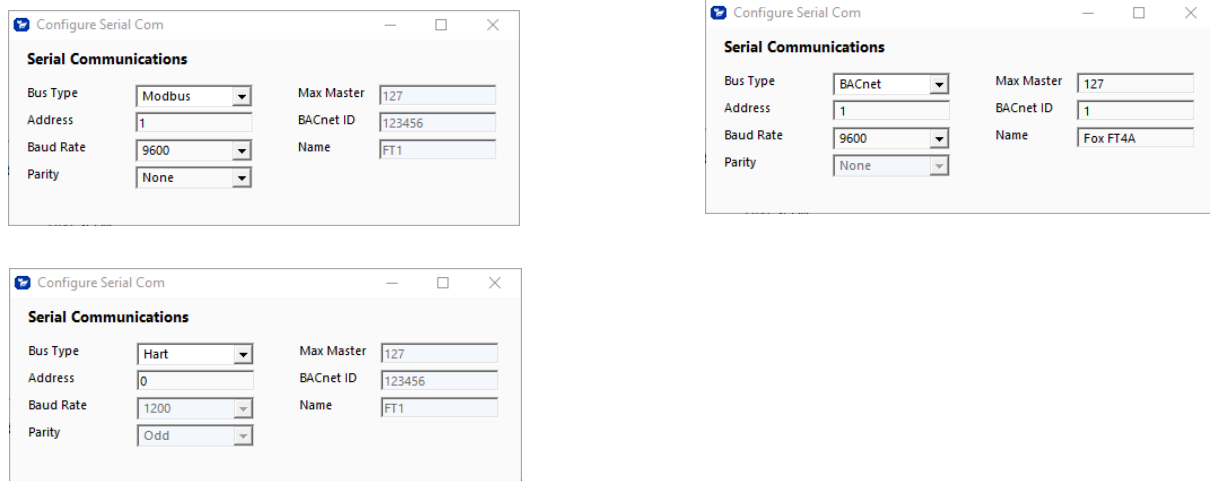
The information displayed on the front panel of the FT1 can be configured by clicking on the "Display Setting" button in the lower right portion of the Configuration Screen in Fig, 4.7 or 4.8. The four drop-down boxes can be used to select the data to present on Screen 1 and Screen 2 of the flow meter display. By selecting "Alternate", the screen automatically switches between the data screens.

Serial COM Settings

The serial communication settings can be accessed by clicking on the "Serial COM Settings" button in the lower right portion of the configuration screen in Fig. 4.7.

If the FT1 has a serial communication option, this function can be used to set the serial communication parameters.

Fig. 4.9: Select Serial Communication Window



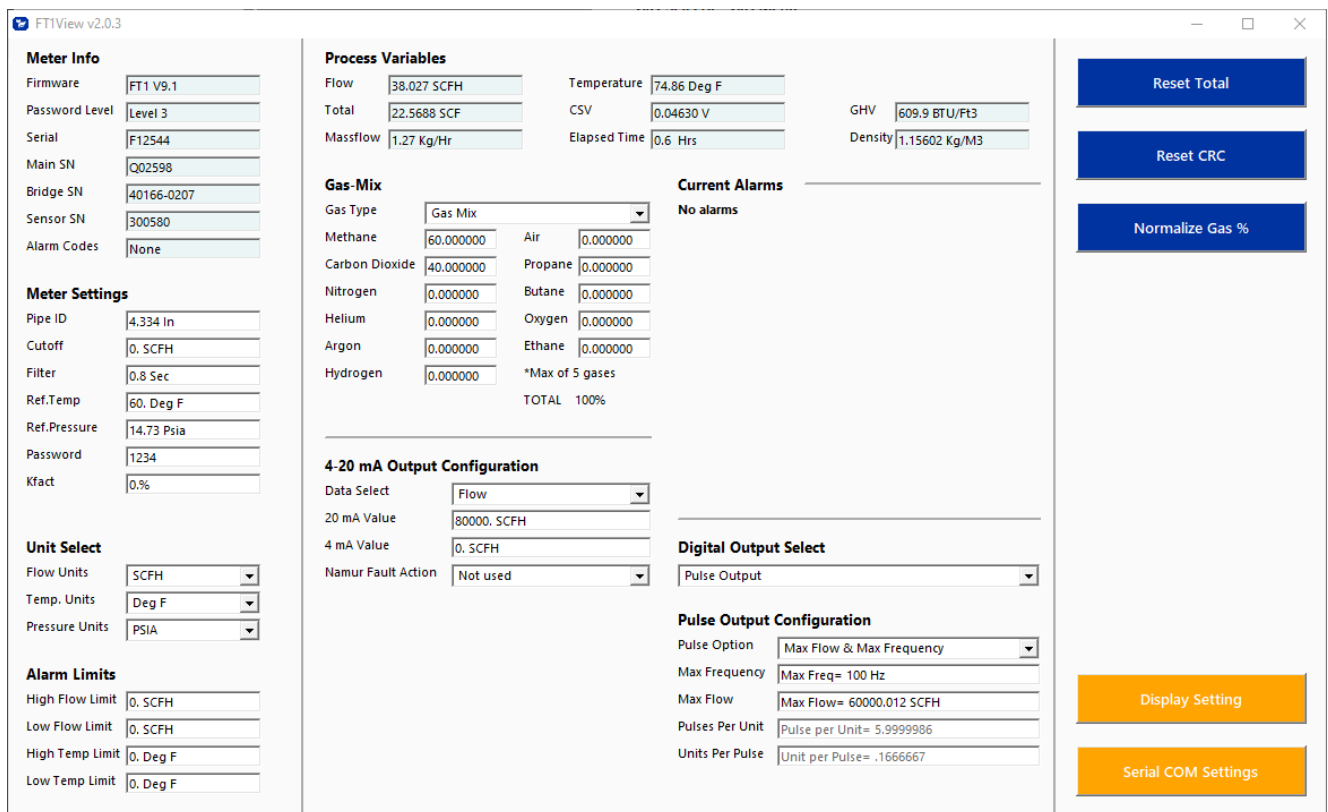
NOTE! This is only available on a meter ordered with the RS485 Modbus RTU, BACnet MS/TP, or HART options. If the Pulse Output option has been ordered, the RS485 Modbus RTU or BACnet MS/TP options are not available. The HART option is only available if the Pulse Output option is ordered.

Gas-Mix: The Gas-SelectX® Gas Menu

Each FT1 flow meter is set to the customer's configuration at the factory. To change the gas or gas mix in the FT1, choose from the following list of gases under "Gas-SelectX":

- Air
- Argon
- Butane
- Carbon Dioxide
- Ethane
- Methane
- Natural Gas
- Nitrogen
- Oxygen
- Helium
- Hydrogen
- Propane
- Custom 5-Gas Mix (Any pure gas from list above, excludes Natural Gas)

Fig. 4.10: Gas-SelectX® Menu



NOTE! A list of pure and mixed gases available on the FT1 flow meter are kept on the Fox website at www.foxthermal.com.

Fig. 4.11: Setting the Gas-SelectX® Custom Gas Mixture

Gas-Mix			
Gas Type	Gas Mix		
Methane	60.000000	Air	0.000000
Carbon Dioxide	40.000000	Propane	0.000000
Nitrogen	0.000000	Butane	0.000000
Helium	0.000000	Oxygen	0.000000
Argon	0.000000	Ethane	0.000000
Hydrogen	0.000000	*Max of 5 gases	
TOTAL			100%

When the "Gas Mix" option is chosen, a series of additional gas concentration fields will become editable. These fields are labeled "Methane", "Carbon Dioxide", "Nitrogen", etc. A default amount will appear in each field, but any of up to five (5) of these can be changed to any percentage between 0.000001 and 100. All remaining gases not used in the 5-Gas Mix must be changed to 0. The total for the five (5) gases chosen for the mix must equal 100% or an error will occur.



NOTE! If the total of the five (5) gases is greater or less than 100%, an alarm will show. Adjust the percentages until 100% is achieved.

Normalize Gas Percentage

In the scenario where the desired gas mix does not total to an even 100%, use the "Normalize Gas %" button to scale the gas mix proportionally so that the total results in 100%.

Simulation Mode

To enter simulation mode, click on the button marked "Simulation" in the Main screen and a password will be requested. Enter the password and then the Simulation screen will be shown.

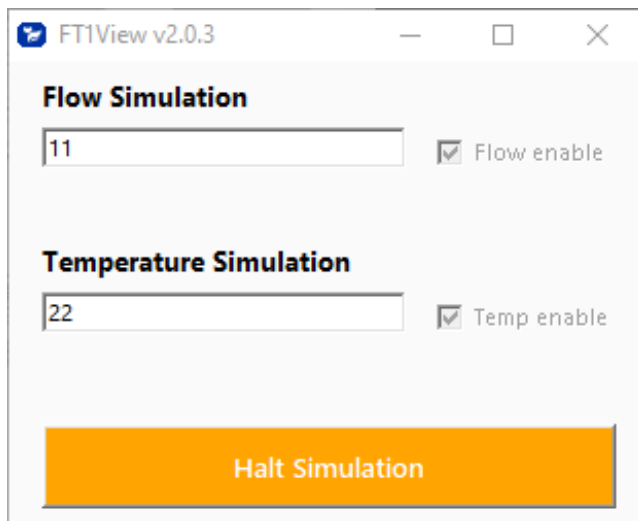
Fig. 4.12: Simulation Mode Window

The simulation mode simulates flow rate and temperature. Click on the required data and enter a value. Simulation mode allows users to verify the operation of the analog output, digital outputs and totalizer at simulated flow rates and temperature.



CAUTION! FT1 outputs (4-20mA, pulse and alarm) - when in simulation mode - may affect the user's system. The user should ensure that this simulation state of operation cannot cause a hazardous or destructive event.

Fig. 4.13: Simulation Running



In Simulation mode, all FT1 outputs and the Totalizer respond as if in normal measurement mode. Click "Halt Simulation" to end.

CAL-V™

CAL-V™ is performed to verify the proper operation of the FT1 flow meter. From the Main screen, click on the "CAL-V" button to access the CAL-V™ Menu Window.

Fig. 4.14: CAL-V™ Menu Window

The screenshot shows the 'CAL-V Settings' window. At the top, the title bar reads 'FT1View v2.1.1'. Below it, the 'CAL-V Settings' section includes a 'Test Type' dropdown menu currently set to 'Hold last flow value'. The 'Log File' field contains the path 'C:\Users\inburnam\Documents\CAL-V_log_FT1' and a 'Browse File' button. A table with two columns, 'Field' and 'Data', is present, with rows for 'Performed By', 'Meter TAG', and 'Comments'. The 'Test' section at the bottom has three input fields: 'CAL-V Value', 'Time Remaining', and 'Result'. To the right of the 'Result' field is a blue 'Perform CAL-V' button. Below the input fields are two orange buttons: 'View CAL-V Log' and 'View Certificate'.

Field	Data
Performed By	
Meter TAG	
Comments	

On the CAL-V™ Menu Window, there are fields to enter information about the person performing the test, meter tag information, and any other important information may be entered into the comments area. Below that are blank fields that accept any text input - all of these fields will show up on the final certificate.

A drop-down menu allows the user to choose between these two options:

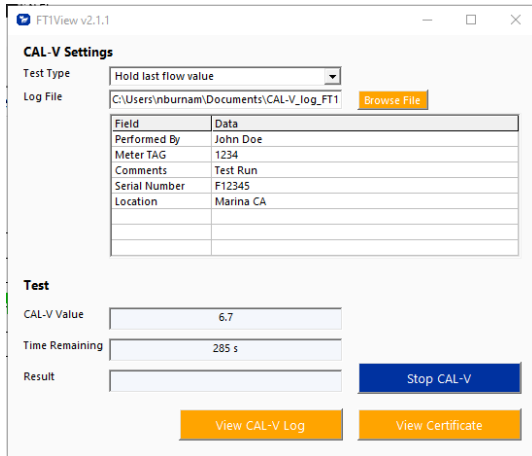
- Flow goes to Zero during CAL-V™
- Flow holds the last value during CAL-V™

Please note that the test will take about five minutes. If the "go to zero" option is chosen, the flow measurement will stop and go to zero for this period. If the "hold value" option has been chosen, the totalizer will continue to increment..

The user can specify a folder name and location to store the test results.

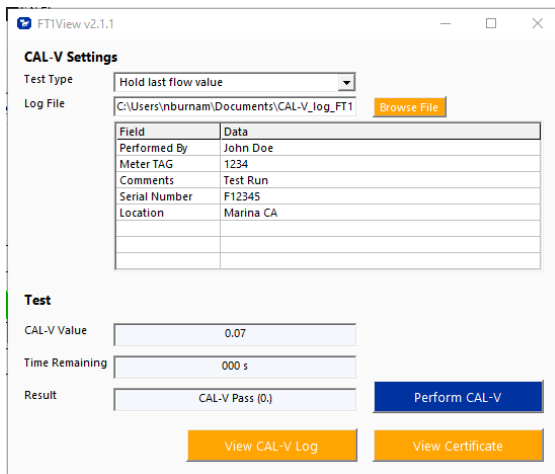
When ready to start, click the "Perform CAL-V" button.

Fig. 4.15: Running a CAL-V™ Test



A Pass/Fail message for the CAL-V™ test will be displayed at the test conclusion.

Fig. 4.16: CAL-V™ Results Window



CAL-V™ Certificate

A CAL-V™ Certificate can be created by pressing the "View Certificate" button. CAL-V™ test data is logged to a file. When a CAL-V™ certificate is requested, the FT1 View™ software will search the log file for the meter serial number and create the certificate from the last test performed.

Fig. 4.17: CAL-V™ Certificate

	399 Reservation Road Marina, CA 93933 USA Phone: 831-384-4300 sales@foxthermal.com
FT1 CAL-V™ CERTIFICATE CALIBRATION VALIDATION	
CAL-V™ Performed on:	January 28 2025 3:40:20 PM
Firmware version:	FT4A V9.1
Fox Meter Serial Number:	F12345
CAL-V™ Results:	CAL-V PASS
CAL-V™:	0
Test Temperature:	75.7 F
Tag #/Meter Location:	1234
Test performed by:	John Doe
Additional Comments:	Test Run
Serial Number:	F12345
Location:	Marina CA

CAL-V™ is a calibration routine that validates the flow meter's calibration accuracy by testing the following:

- * Repeatability of sensor
- * Repeatability of sensor electronics
- * Confirms Calibration Algorithms

At the conclusion of the test, the meter will display a pass/fail message and the CAL-V™ data.
A "pass" result confirms the meter is measuring accurately.
CAL-V™ limits: ± 0 - 0.8 Pass, ± 0.8-1.0 Warning, > ± 1.0 Fail

Configuration:

Pipe Diameter:	29.25 In	Gas Select:	Single Gas
Customer STP:	60.0 Deg F & 14.73 Psia		Methane 100%
4-20 mA Range:	0 - 11400 SCFM		
Zero Flow Cutoff:	0 SCFM		
Previous CAL-V Value:	0.00		
Previous CAL-V Result:	Pass		
Previous CAL-V Date:	1/3/25 9:27:1		
Gross Heating Value[BTU/FT3]:	1015		
Density[Kg/M3]:	0.6801		

CAL-V™ Log

The "View CAL-V Log" button allows the operator to view a log of previous CAL-V™ tests that have been performed on the meter.

Fig. 4.18: CAL-V™ Log

Ser.Nb	Date	Time	Verify	PASS/FAIL	Temp	Perform by:	TAG	Comments
F12345	July 16 2024	15:54:02	-0.07	CAL-V PASS	75.8 F	John Doe	1234	Test Run [Serial Number
F12345	July 16 2024	15:55:29	-0.07	CAL-V PASS	75.9 F	John Doe	1234	Test Run [Serial Number
F12345	July 29 2024	08:17:34	-0.01	CAL-V PASS	72.9 F	John Doe	1234	Test Run [Serial Number
F12345	July 29 2024	08:20:41	0.23	CAL-V PASS	73.0 F	John Doe	1234	Test Run [Serial Number
F12345	January 02 2025	09:45:12	-0.15	CAL-V PASS	71.3 F	John Doe	1234	Test Run [Serial Numt
F12345	January 02 2025	09:55:17	-0.04	CAL-V PASS	71.7 F	John Doe	1234	Test Run [Serial Numt
F12345	January 02 2025	10:56:45	0.03	CAL-V PASS	74.4 F	John Doe	1234	Test Run [Serial Numt
F12345	January 02 2025	11:01:07	0.03	CAL-V PASS	74.5 F	John Doe	1234	Test Run [Serial Numt
F12345	January 02 2025	14:05:01	-0.49	CAL-V PASS	77.6 F	John Doe	1234	Test Run [Serial Numt
F12345	January 03 2025	08:08:11	-0.72	CAL-V PASS	70.6 F	John Doe	1234	Test Run [Serial Numt
F12345	January 03 2025	09:22:06	0.47	CAL-V PASS	75.8 F	John Doe	1234	Test Run [Serial Numt
F12345	January 28 2025	15:40:20	0.00	CAL-V PASS	75.7 F	John Doe	1234	Test Run [Serial Numt

Glossary of Terms and Definitions

COM	Communication
CSV	Current Sense Voltage
DMM	Digital Multimeter
ID	Inner Diameter
mA	Milliamps
PC	Personal Computer
RTD	Resistance Temperature Detector
STP	Standard Temperature and Pressure

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Wiring



Troubleshooting Tips



Definition of Terms



NOTE! is used for Notes and Information



WARNING! is used to indicate a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION! is used to indicate a hazardous situation which, if not avoided, could result in minor or moderate injury.



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