

 TM100™ View Software
Instruction Manual

Document: S-IM-TM100 | Rev B_PN 113321

TM100-View Software

Disclaimer

GLOBAL SUPPORT LOCATIONS: WE ARE HERE TO HELP!

For Global Service Centers, go to <http://www.sierrainstruments.com/facilities.html>

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Warnings and Cautions

General Safety Information

We use caution and warning statements throughout this book to draw your attention to important information.

Symbol Key		
Symbol	Symbol Meaning	Description
	Warning	This statement appears with information that is important to protect people and equipment from damage. Pay very close attention to all warnings that apply to your application.
	Caution/Note	This statement appears with information that is important for protecting your equipment's performance. Read and follow all cautions that apply to your application.

CAUTION

- Caution! Before making adjustments to the TM100, verify the flow meter is not actively monitoring or reporting to any master control system. Adjustments to the electronics will cause direct changes to flow control settings.
- Caution! All flow meter connections, isolation valves and fittings for hot tapping must have the same or higher pressure rating as the main pipeline.
- Caution! The flow meter electronics and sensor probe have been manufactured and calibrated to operate as a unit. The flow meter will not operate properly if parts are replaced from another meter.
- Caution! Printed circuit boards are sensitive to electrostatic discharge. To avoid damaging the board, follow these precautions to minimize the risk of damage:
 - before handling the assembly, discharge your body by touching a grounded, metal object
 - handle all cards by their edges unless otherwise required
 - when possible, use grounded electrostatic discharge wrist straps when handling sensitive components

Notice

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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TM100-View Software

Introduction

Introduction

Thank you for purchasing the TM100™ Thermal Gas Mass Flow Meter from Sierra Instruments. The TM100 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 new TM100-View™ software allows users to easily display data and configure the TM100 to their specific application parameters. The software can also access the Gas-Mix™ menu, the TM-Cal™ calibration validation diagnostic test, and log flow/temperature data to an Excel file.

The TM100 is available with two different options: the RS485 Communication option or the Pulse Output option. The TM100-View software has been developed to react intuitively to the type of TM100 meter with which it is interfacing.

This manual contains the installation and operation instructions for the TM100-View software.

This manual is divided into the following sections: Introduction, Installation, Operation, Glossary, 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 TM100 to a PC with a USB (Type-A to 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: www.ftdichip.com/Drivers/VCP.htm

NOTE! The latest version of the TM100-View™ software is available for download at <https://www.sierrainstruments.com/products/upgrades/tm100-view.html>

Fig. 2.1: Online Download Location for TM100-View™ software

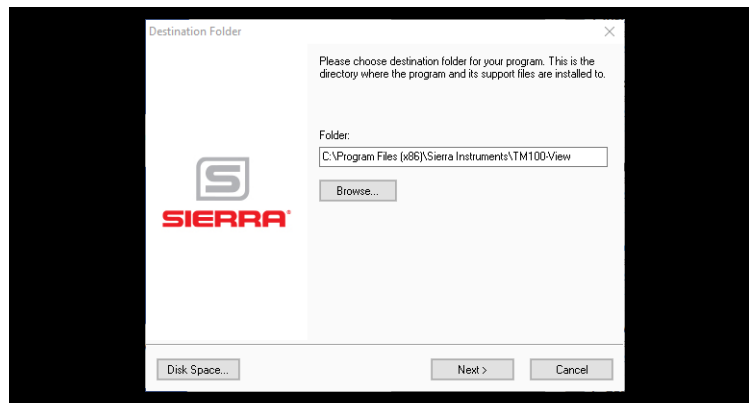
1 - Click on the TM100-View™ software download button

The screenshot shows the Sierra Instruments website. The top navigation bar includes links for Products, Support & Contact, Resources, Docs & Downloads, Request Quote, My Account, and Our Story. A blue 'Get A Quote' button is also present. The main content area is titled 'Meter Data and Configuration' and 'TM100-View Software'. It lists several features: quick access to configuration parameters, raw data for diagnosis, measurement unit selection, calibration certificates, alarm settings, gas-mix menu, and simulation mode. At the bottom of this section is a red 'TM100-View Software Download' button and a white 'Request a Quote' button. Below this is an 'Overview' section with a brief description of the software and a 'Get Started > Download TM100-View Software' link. A note at the bottom states that a working version of Microsoft Office is required for installation.

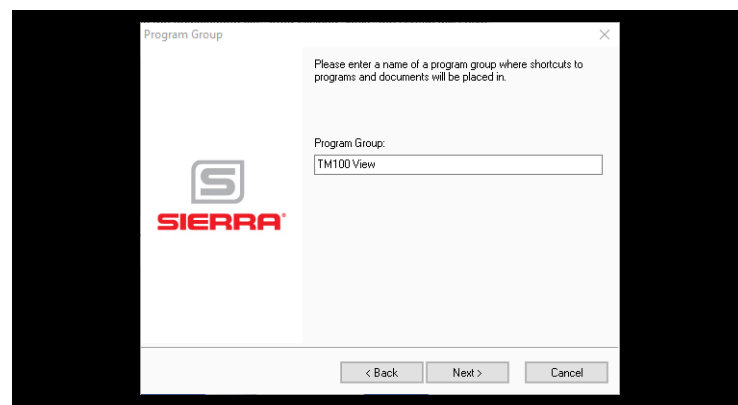
TM100-View Software

Startup

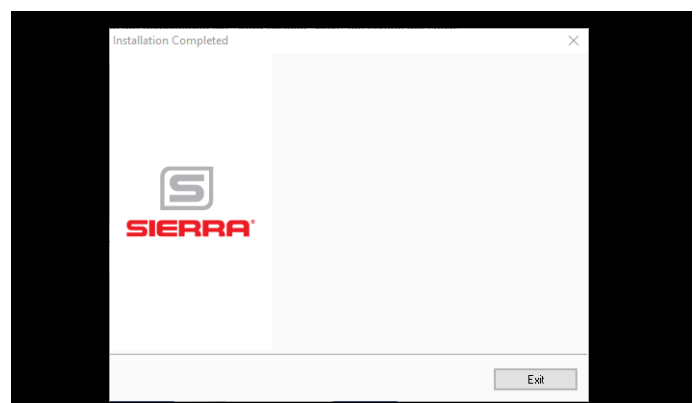
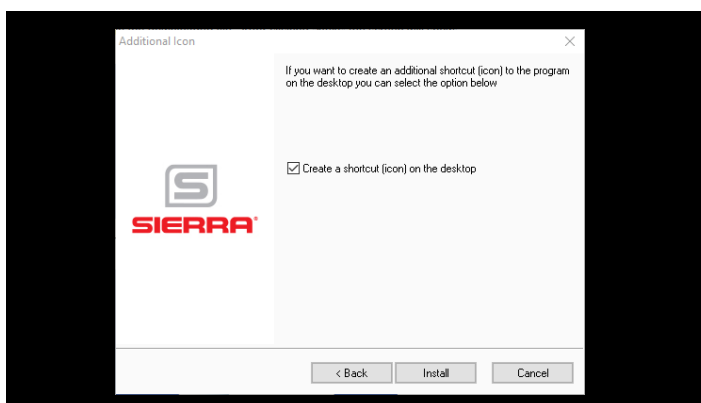
To install the TM100-View™ software program, run the "TM100-View-Setup-v#.#.#.exe" file that is located in the download folder. After clicking "Next" the screen will show:



Select the folder in which you wish to install TM100-View software, then click "Next".



Please enter a name for the Program Group or use the default TM100View 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", then restart your computer.

Power on the Meter

Refer to the TM100 Instruction Manual for Power input wiring instructions. The TM100 must be powered on to communicate with the TM100-View software™ tool.

Connect the TM100 to a PC or Laptop via USB

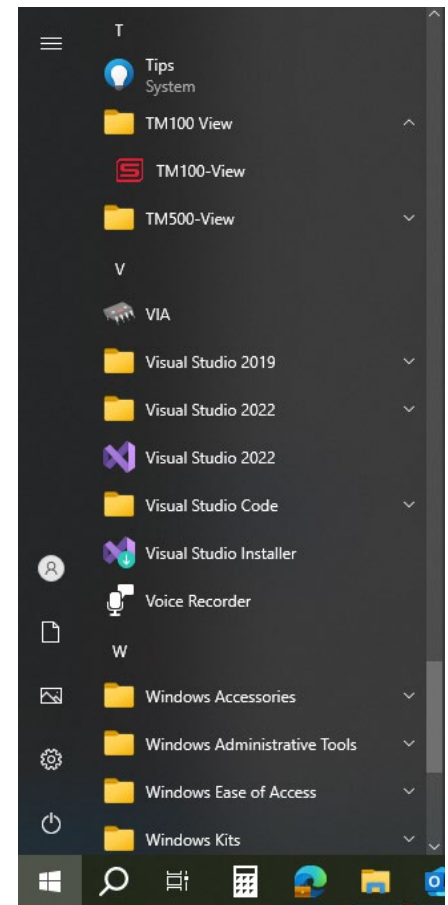
Be sure to have your TM100 flow meter connected by USB to a PC or laptop that has TM100 View™ software successfully downloaded to the operating system. Open the enclosure by unscrewing the enclosure cap, loosen the two captive screws on the display assembly and rotate it open. The USB port is accessible on the electronics board beneath the display.

COM Port Assignment

Be sure to have your TM100 connected by USB to a PC or laptop before opening TM100-View software. Upon opening TM100-View™ software 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.

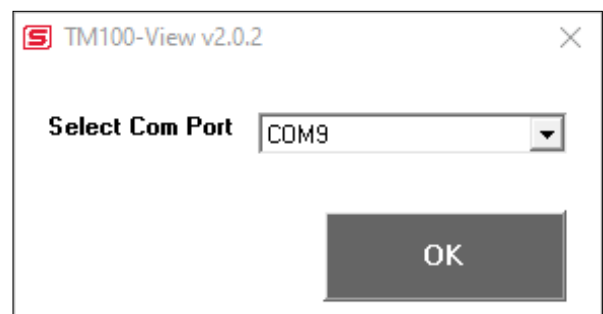
After re-boot and connecting to a PC via USB, startup the TM100 View™ software accessible in the Windows "Start" button or search bar."

If prompted, enter the assigned COM port in TM100-View™ software by using the drop down menu and press **OK**.



NOTE! The TM100 meter must be plugged into the computer in order for the system to register it.

Fig. 2.2: COM Port Selection Window



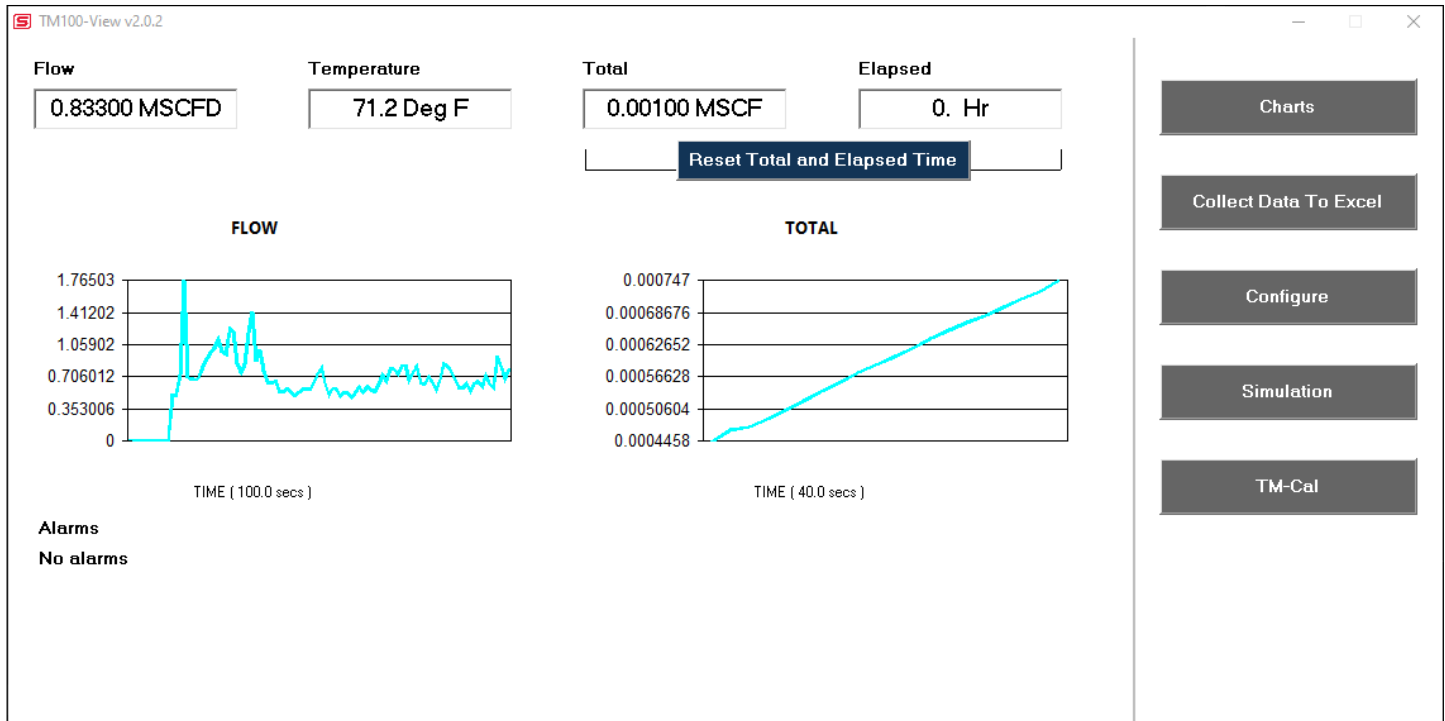
TM100-View Software

Operations

Main Screen

The image below depicts the main screen that appears upon entering TM100-View software.

Fig. 3.1: TM100-View™ software Main Screen



Flow & Temperature

TM100-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 either temperature or flow. Each chart can be individually enlarged and re-scaled from the original default settings. For more information on how to change the charts settings, refer to p. 12.

NOTE! The charts are refreshed at user selected update rate. See p. 12 for more information on setting up charts.

Collect Data To Excel.

This function 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 Logger function, refer to "Data Logger" on page 14.

Configure

This allows the operator to go in and set the application parameters. This can be done either via the TM100-View™ software or manually via the instrument's display. For more information on configuring application parameters, refer to p. 16.

Simulation

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/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.

TM-Cal™

Sierra Instruments has developed the TM-Cal™ Calibration Validation to help our customers avoid sending the meter back for annual or biennial re-calibrations. Calibration Validation allows our customers to validate the accuracy and functionality of the meter in the field with the push of a button. By performing a simple test, the operator can verify that the meter is running accurately. TM-Cal™ ensures the repeatability, functionality of the sensor and its associated signal processing circuitry, and cleanliness of the sensor.

The TM-Cal™ calibration validation test can be performed while the unit is still in the pipe. The TM-Cal™ 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.

Exit

Exit the application.

Charts Settings

From the main menu screen, click on "Charts". Two charts will appear side-by-side. Each chart can be selected for flow, temperature or total flow and scaled in one of three ways: a plus/minus percent scale, inputting min/max values manually, or real-time automatic scaling.

Fig. 3.2: Chart Settings Window - Charts 1

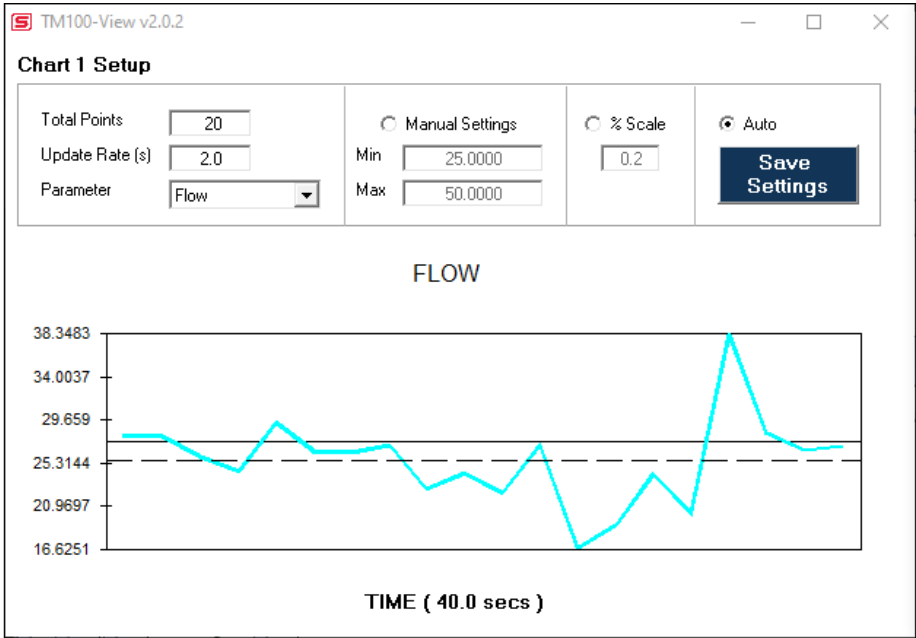
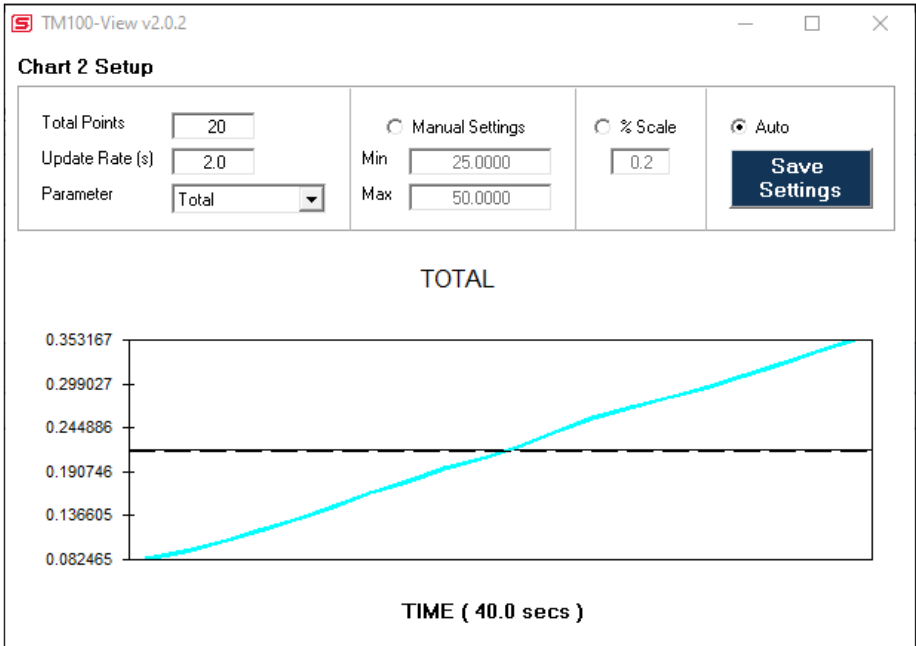


Fig. 3.3: Chart Settings Window - Charts 2



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 Setting

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

TM100-View Software

Operations

Collect Data to Excel

The Data Logger screen can be accessed from the main screen. Clicking the "Collect Data to Excel" function will prompt the user for a password. Enter a Level I or Level II password and the Data Logger window will appear.

Fig. 3.4: Data Logger Window - Logging Turned Off

Excel Filename

Select C:\Users\mburnam\Documents\test1.xlsx

Data Selection

- ☐ CSV (Current Sense Voltage)
- ☐ Flow
- ☐ Flow NM3/H
- ☐ Gas Temperature
- ☐ Total
- ☐ Elapsed Time

Data Preview

Index	Name	Value

Logged Values

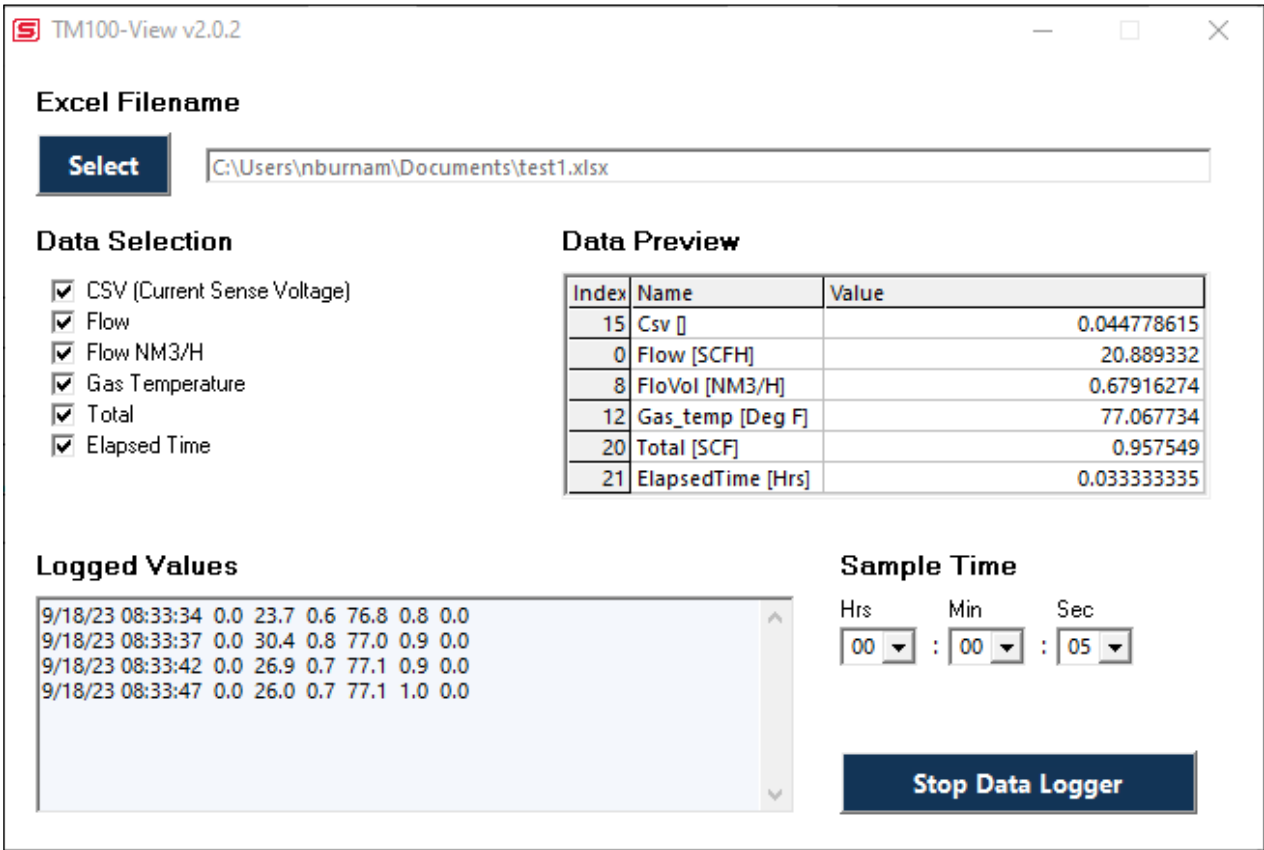
Sample Time

Hrs: 00 : Min: 00 : Sec: 05

Start Data Logger

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. 3.5: Data Logger Window - Logging Turned On



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

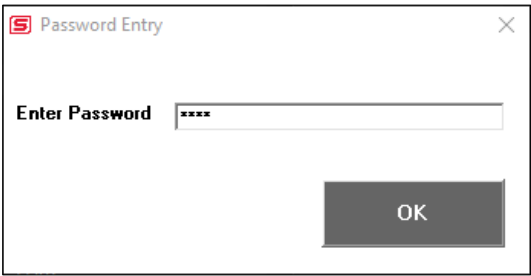
TM100-View Software

Operations

Configure

From the main menu, click on the "Configure" button and enter the requested password for either Level I (1234) or Level II (9111) access.

Fig. 3.6: Password Window



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

Fig. 3.7: Level II Configuration Screen - RS485 Option

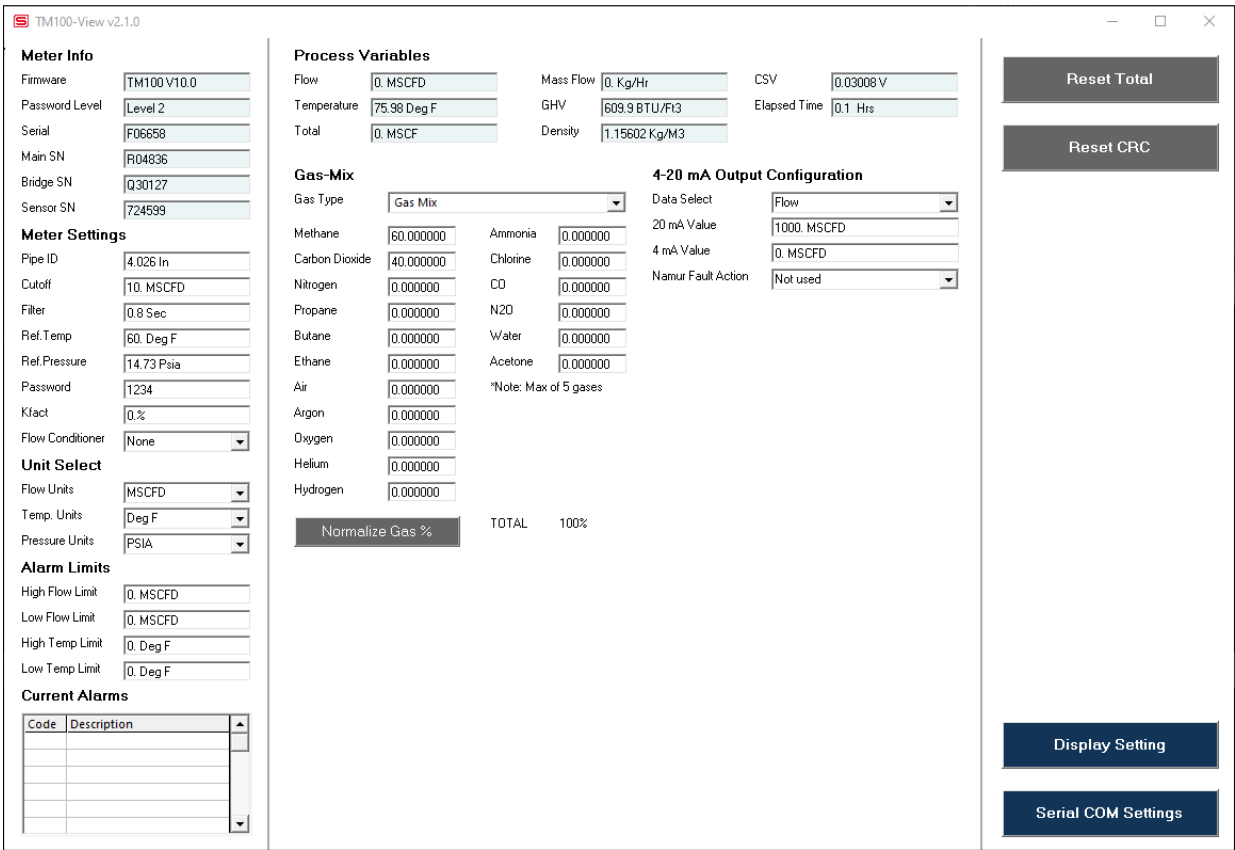


Fig. 3.8: Level II Configuration Screen - Pulse Output Option

Meter Info

Firmware: TM100 V10.0
 Password Level: Level 2
 Serial: F06658
 Main SN: 346230145
 Bridge SN: 40166-0207
 Sensor SN: 716085

Meter Settings

Pipe ID: 4.026 In
 Cutoff: 600. SCFH
 Filter: 0.8 Sec
 Ref. Temp: 60. Deg F
 Ref. Pressure: 14.73 Psia
 Password: 1234
 Klact: 0.2
 Flow Conditioner: None

Unit Select

Flow Units: SCFH
 Temp. Units: Deg F
 Pressure Units: PSIA

Alarm Limits

High Flow Limit: 0. SCFH
 Low Flow Limit: 0. SCFH
 High Temp Limit: 0. Deg F
 Low Temp Limit: 0. Deg F

Current Alarms

Code	Description

Process Variables

Flow: 870.043 SCFH
 Temperature: 75.66 Deg F
 Total: 117.67 SCF
 Mass Flow: 28.48 Kg/Hr
 GHV: 609.9 BTU/Ft3
 Density: 1.15602 Kg/M3
 CSV: 0.04579 V
 Elapsed Time: 0.7 Hrs

Gas-Mix

Gas Type: Gas Mix

Gas	Value
Methane	60.000000
Carbon Dioxide	40.000000
Nitrogen	0.000000
Propane	0.000000
Butane	0.000000
Ethane	0.000000
Air	0.000000
Argon	0.000000
Oxygen	0.000000
Helium	0.000000
Hydrogen	0.000000
Ammonia	0.000000
Chlorine	0.000000
CO	0.000000
N2O	0.000000
Water	0.000000
Acetone	0.000000

*Note: Max of 5 gases

4-20 mA Output Configuration

Data Select: Flow
 20 mA Value: 60000. SCFH
 4 mA Value: 0. SCFH
 Namur Fault Action: Not used

Digital Output Select

Pulse Output

Pulse Output Configuration

Pulse Option: Max Flow & Max Frequency
 Max Frequency: Max Freq= 100 Hz
 Max Flow: Max Flow= 60000.012 SCFH
 Pulses Per Unit: Pulse per Unit= 5.9999996
 Units Per Pulse: Unit per Pulse= .1666667

Buttons: Reset Total, Reset CRC, Display Setting, Serial COM Settings

Meter Info

Firmware: TM100 meter firmware revision level.

Password level: TMView Password level entered.

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

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 (see TM100 Instruction Manual for more details).

TM100-View Software

Operations

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 ApplD 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. $\text{Final Flow} = \text{Flow} + (\text{Flow} * \text{K Factor}/100)$

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

Unit Select

The "Unit Select" section is used to change the desired units in 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.

Current Alarms

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

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

Elapsed Time: Time since the Totalizer was reset

GHV: Gross Heating Value of measured gas

Density: Density of measured gas

Gas-Mix™

This menu allows the user to choose from a list of gases. More information on Gas-Mix™ can be found on p. 22.

4-20mA Output Configuration

The TM100 has one analog 4-20mA output that is configurable for either flow or temperature. Though the TM100 will be scaled for the specific application coming from the factory, TM100-View™ software allows the operator to easily re-scale the 4-20mA output as needed.

Digital Output Select

This selection configures the TM100 digital output for either pulses (counts) or as an alarm discrete output.

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

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

i 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

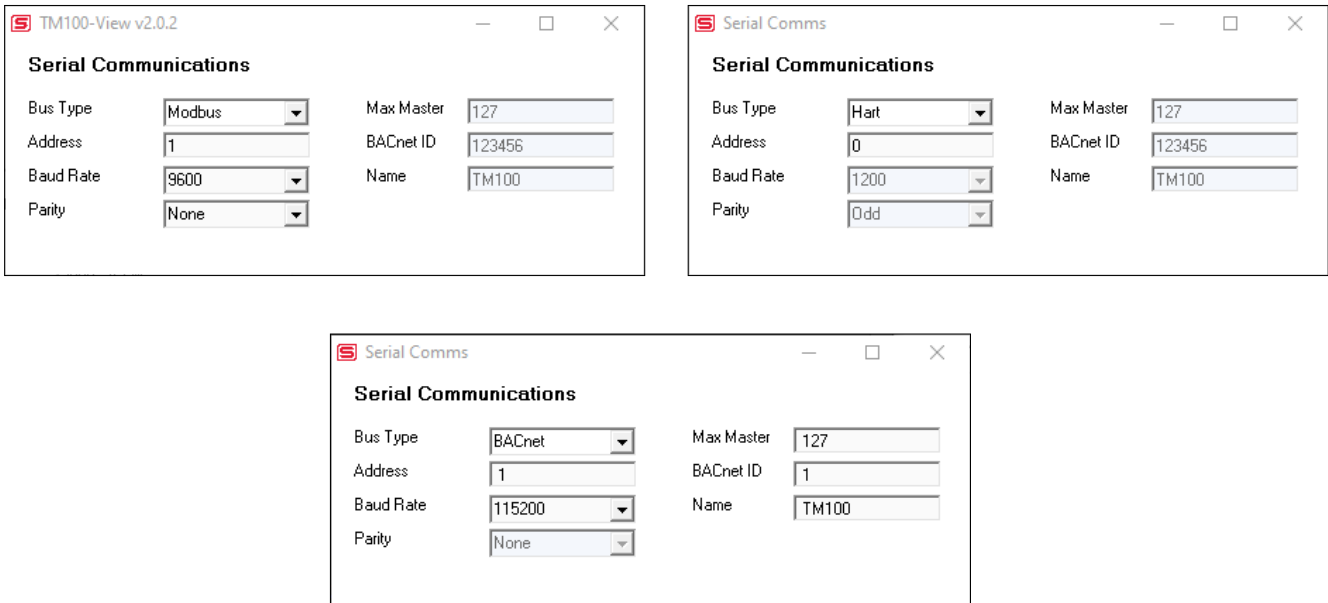
The four drop-down boxes can be used to select the data to present on Screen 1 and Screen 2 of the flow meter display. By selecting "Alternate", the screen automatically switches between the data screens.

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. 3.7.

If the TM100 has a serial communication option, this function can be used to set the serial communication parameters

Fig. 3.9: Select Serial Communication Window



NOTE: This is only available on meters with the RS485 or HART serial communication options. Modbus RTU and BACnet MS/TP are available with the RS485 option and are not available with the Pulse Output option. HART serial communication is only available with the Pulse Output option.

Gas-Mix™ Gas Menu

Each TM100 flow meter is calibrated in the factory and pre-programmed with the gas specified in the order. If the Gas-Mix option is ordered, the pure or gas mixture gas can be changed. To choose what gas or gas mixture flow for the TM100 to monitor, select from the list of gases under Gas-Mix:

- Air
- Argon
- Butane
- Carbon Dioxide (CO2)
- Ethane
- Helium
- Hydrogen
- Methane
- Natural Gas (mix)
- Nitrogen
- Oxygen
- Propane
- Gas Mix

Fig. 3.10: Gas-Mix™ Menu

TM100-View v2.1.0

Meter Info

Firmware	TM100 v10.1
Password Level	Level 1
Serial	S03500
Main SN	R26474
Bridge SN	P12345
Sensor SN	724599

Meter Settings

Pipe ID	4.026 In
Cutoff	0. SCFM
Filter	0.8 Sec
Ref. Temp	60. Deg F
Ref Pressure	14.73 Psia
Password	1234
Kfact	0. %
Flow Conditioner	None

Unit Select

Flow Units	SCFM
Temp. Units	Deg F
Pressure Units	PSIA

Alarm Limits

High Flow Limit	0. SCFM
Low Flow Limit	0. SCFM
High Temp Limit	0. Deg F
Low Temp Limit	0. Deg F

Current Alarms

Code	Description

Process Variables

Flow	0. SCFM	Mass Flow	0. Kg/Hr	CSV	0.31320 V
Temperature	278.46 Deg F	GHV	3268.0 BTU/Ft3	Elapsed Time	42.8 Hrs
Total	3806.1 SCF	Density	6.00355 Kg/M3		

Gas-Mix

Gas Type: **Gas Mix**

Methane	60.000000	Ammonia	0.000000
Carbon Dioxide	40.000000	Chlorine	0.000000
Nitrogen	0.000000	CO	0.000000
Propane	0.000000	N2O	0.000000
Butane	0.000000	Water	0.000000
Ethane	0.000000	Acetone	0.000000
Air	0.000000	*Note: Max of 5 gases	
Argon	0.000000		
Oxygen	0.000000		
Helium	0.000000		
Hydrogen	0.000000		

4-20 mA Output Configuration

Data Select	Flow
20 mA Value	100. SCFM
4 mA Value	0. SCFM
Namur Fault Action	Not used

Digital Output Select

Pulse Output	
--------------	--

Pulse Output Configuration

Pulse Option	Max Flow & Max Frequency
Max Frequency	Max Freq= 100 Hz
Max Flow	Max Flow= 100 SCFM
Pulses Per Unit	Pulse per Unit= 60.00000240000001
Units Per Pulse	Unit per Pulse= .016666666

Buttons: Reset Total, Reset CRC, Display Setting, Serial COM Settings

NOTE: A list of pure and mixed gases available on the TM100 flowmeter are kept on the Sierra website at www.sierrainstruments.com.

Fig. 3.11: Setting the Gas-Mix™ Menu

Gas-Mix	
Gas Type	Gas Mix
Methane	60.000000
Carbon Dioxide	40.000000
Nitrogen	0.000000
Propane	0.000000
Butane	0.000000
Ethane	0.000000
Air	0.000000
Argon	0.000000
Oxygen	0.000000
Helium	0.000000
Hydrogen	0.000000
Ammonia	0.000000
Chlorine	0.000000
CO	0.000000
N2O	0.000000
Water	0.000000
Acetone	0.000000
*Note: Max of 5 gases	
Normalize Gas %	TOTAL 100%

When the "Gas-Mix" option is chosen, a series of additional gas concentration fields will appear. These fields are labeled "Methane", "Carbon Dioxide", etc. A default amount will appear in each field, these can be changed to any percentage between 1 and 100. The total for the gases in the Gas-Mix must equal 100% or an error will occur.

NOTE: If the total of all gases is greater or less than 100%, an alarm will show. Adjust the percentages until 100% is achieved.

Simulation Mode

After clicking on "Simulation", a password will be requested. Enter the password and then the Simulation screen will be shown.

Fig. 3.12: Simulation Mode Window

TM100-View v2.0.2

Flow Simulation

0

Flow enable

Temperature

0

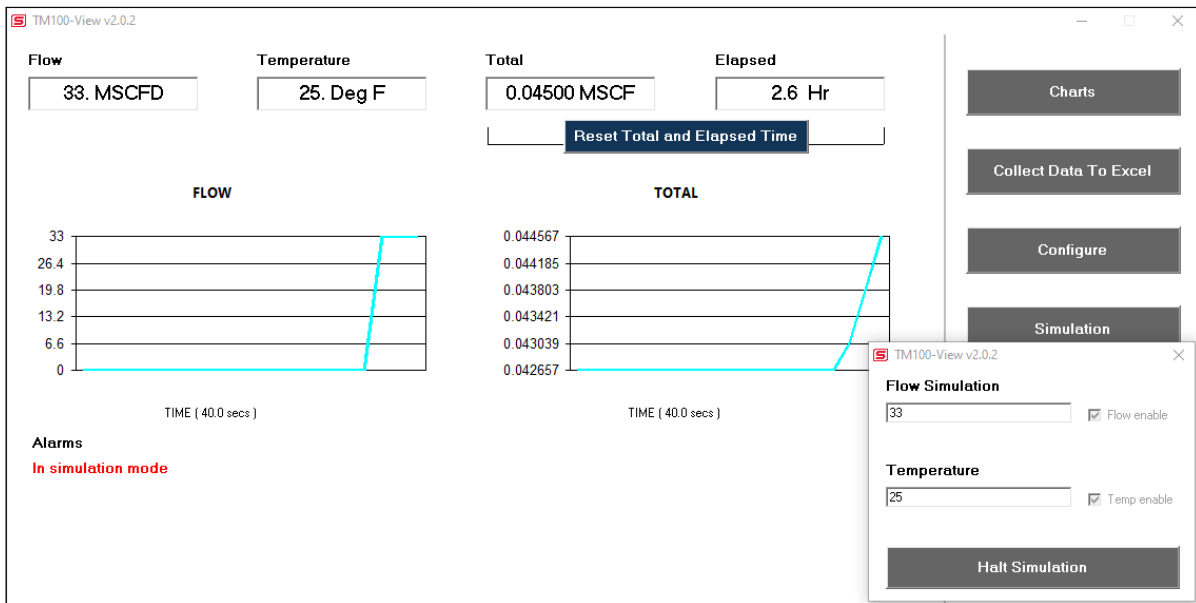
Temp enable

Start Simulation

The simulation mode simulates flow rate or 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.

Enter the value, select the corresponding checkbox, and press "Start Simulation".

Fig. 3.13: Simulation Running



In Simulation mode, all TM100 outputs and the Totalizer respond as if in normal measurement mode. Click "Halt Simulation" to end.

TM100-View Software

Operations

TM-Cal™

TM-Cal™ is performed to verify the proper operation of the TM100 flow meter. From the Main menu, click on the "TM-Cal" button to access the TM-Cal™ Menu Window.

Fig. 3.14: TM-Cal™ Test Menu Window

TM100-View v2.0.2

TM-Cal Settings

Performed By

Meter TAG

Comments

Test Type

Log File [Browse File](#)

Test

TM-Cal Value

Time Remaining

Result [Perform TM-Cal](#)

[View TM-Cal Log](#) [View Certificate](#)

On the TM-Cal™ Menu, 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.

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

- Flow goes to Zero during TM-Cal™
- Flow holds the last value during TM-Cal™

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 also specify a particular folder name and location for the data to be stored in a log to access test results at later times.

When ready to start, click the "Perform TM-Cal" button.

Fig. 3.15: Running a TM-Cal™ Test

TM100-View v2.0.2

TM-Cal Settings

Performed By

NB

Meter TAG

1234

Comments

TEST

Test Type

Hold last flow value

Log File

c:\users\mburnam\Documents\TM-Cal_log.txt

Browse File

Test

TM-Cal Value

6.06

Time Remaining

283 s

Result

Stop TM-Cal

View TM-Cal Log

View Certificate

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

Fig. 3.16: TM-Cal™ Results Window

TM100-View v2.0.2

TM-Cal Settings

Performed By

NB

Meter TAG

1234

Comments

TEST

Test Type

Hold last flow value

Log File

c:\users\mburnam\Documents\TM-Cal_log.txt

Browse File

Test

TM-Cal Value

0.11

Time Remaining

000 s

Result

TM-Cal Pass (0.11)

Perform TM-Cal

View TM-Cal Log

View Certificate

TM100-View Software

Operations

TM-Cal™ Certificate

The TM-Cal™ Certificate function displays the latest certification. When performing a TM-Cal™ test, all the data is logged into a log file with all pertinent data, including the serial number. A laptop or PC can be used to perform the TM-Cal™ test on the TM100 meter. When a TM-Cal™ certificate is requested, the program will search the log file for the specific serial number and will display only the last check performed.

Fig. 3.17: TM-Cal™ Certificate



20 Ryan Ranch Road, Suite 109
Monterey, CA 93940 USA
Phone: 1-831-373-6200
sales@sierrainstruments.com

TM-Cal™ CERTIFICATE

CALIBRATION VALIDATION

TM-Cal™ Performed on:

December 30 2025 15:22:41

Firmware version:

TM100 V10.0

Meter Serial Number:

F06658

TM-Cal™ Results:

TM-Cal PASS

TM-Cal™ Value:

0.04

Test Temperature:

75.9 F

Tag #/Meter Location:

1234

Test performed by:

Jane Doe

Additional Comments:

Well #20

TM-Cal™ 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 TM-Cal™ data.

A "pass" result confirms the meter is measuring accurately.

TM-Cal™ limits: ± 0 - 0.8 Pass, ± 0.8-1.0 Warning, > ± 1.0 Fail

Configuration:

Pipe Diameter:

4.026 In

Customer STP:

60.0 Deg F & 14.73 Psia

4-20 mA Range:

0 - 60000 SCFH

Zero Flow Cutoff:

600 SCFH

Previous CAL-V Value:

-0.04

Previous CAL-V Result:

Pass

Previous CAL-V Date:

12/15/25 15:9:41

Gross Heating Value(BTU/FT3):

609.9

Density(Kg/M3):

1.156

Gas Select:

Mix Gas

Methane 60.0000000%

Carbon Dioxide 40.0000000%

TM-Cal™ Log

The "View TM-Call Log" button allows the operator to view a log of previous TM-Cal™ tests that have been executed on the meter.

Fig. 3.18: TM-Cal™ Log

TM100-View v2.0.2									
S03500	September 13	2023	14:58:11	12.34	TM-Cal FAIL	24.1 C			
S03500	September 13	2023	14:58:20	11.16	TM-Cal FAIL	24.1 C			
S03500	September 13	2023	14:58:27	0.00	TM-Cal PASS	24.1 C			
S03500	September 14	2023	08:59:25	7.57	TM-Cal FAIL	24.7 C NB	1234	TEST	
S03500	September 14	2023	09:04:20	10.22	TM-Cal FAIL	22.3 C NB	1234	TEST	
S03500	September 14	2023	09:09:25	9.28	TM-Cal FAIL	22.4 C NB	1234	TEST	
S03500	September 14	2023	09:09:36	12.49	TM-Cal FAIL	22.4 C NB	1234	TEST	
S03500	September 14	2023	09:18:22	10.12	TM-Cal FAIL	21.8 C NB	1234	TEST	
S03500	September 14	2023	15:38:44	2.96	TM-Cal FAIL	80.8 F NB	1234	TEST	
S03500	September 14	2023	15:39:17	3.01	TM-Cal FAIL	80.9 F NB	1234	TEST	
S03500	September 14	2023	15:39:25	0.00	TM-Cal PASS	80.7 F NB	1234	TEST	
S03500	September 14	2023	15:47:38	-0.37	TM-Cal PASS	80.2 F NB	1234	TEST	
S03500	September 14	2023	15:49:11	0.17	TM-Cal PASS	82.1 F NB	1234	TEST	
S03500	September 14	2023	15:54:20	7.40	TM-Cal FAIL	79.8 F NB	1234	TEST	
S03500	September 14	2023	15:55:08	0.95	TM-Cal WARNING	86.2 F NB	1234	TEST	
S03500	September 14	2023	15:55:35	0.44	TM-Cal PASS	90.8 F NB	1234	TEST	
S03500	September 15	2023	08:15:11	-0.18	TM-Cal PASS	76.7 F NB	1234	TEST	
S03500	September 15	2023	08:17:47	-0.46	TM-Cal PASS	77.1 F NB	1234	TEST	

Definition

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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