



Quick Install Guide

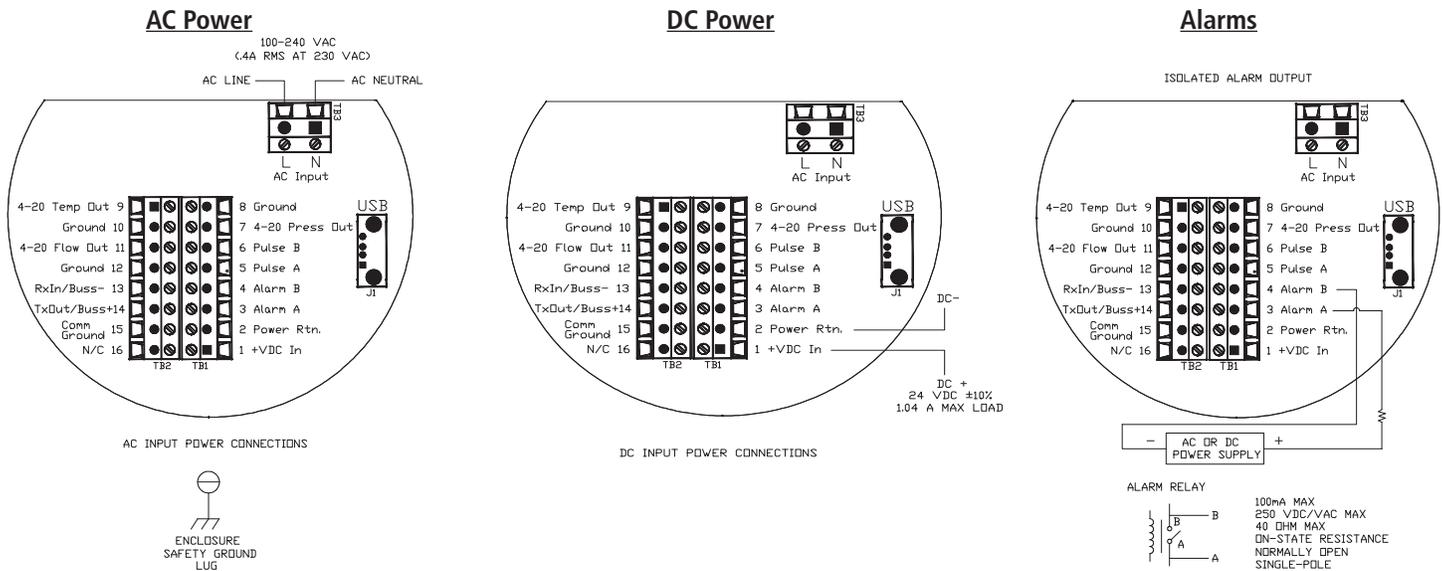
A copy of this Quick Install Guide, the user software and the manual are also included on the product information CD included in your shipment.

Safety

1. Apply power only after reviewing the wiring diagrams in the "Installation and Wiring" section below or in Chapter 2, p. 11 of the Instruction Manual. Apply gas flow only after checking plumbing connections for leaks.

Installation and Wiring

1. Install the meter in the pipe. Make sure you have enough straight run pipe for your installation. See Figure 2-1, p. 12 of the Instruction Manual for the straight run requirements.
2. Connect AC or DC power per the meter configuration received. See the diagrams below or Figures 2-5, 2-6, and 2-7 on pages 18-20 in the Instruction Manual for more information.



3. After a short start-up routine, the meter will begin displaying measured variables using the setup as supplied to the factory from your application data sheet. You will access this data via the display (if ordered) or the Smart Interface Program (SIP) if connected and installed on your computer. The meter will scroll through three screens: flow and temperature, pressure (if ordered), and totalizer. See Chapter 3: Operating & Programming, p. 25 in your Instruction Manual.
4. Connect the analog outputs (if you are going to use them). The meter comes with two non-isolated outputs for flow and temperature, plus an optional output for pressure. Connect power as shown in #2 above.

Using The Push Buttons and Display

1. In general terms, the display menu system consists of a Main Menu, the Set-Up Menu, and a Sub-Menu used to program each item in the Set-Up Menu. There is also a series of data entry or pull-down screens to enter your set-up data for each parameter. Menus may be adjusted using the six buttons on the front of the unit: up ▲, down ▼, left ◀, right ▶, enter ↵, and escape/cancel ⊗.

- If you're updating a value, and that value is currently set to "0", pressing the up ▲ key will increase the value to "1" while pressing the left ◀ button will move the menu selection to the left or the data entry field to the left if updating a menu value. Pressing the enter ↵ key accepts the current value.
- While editing information, the screen data "flashes" to show that you are actively editing. Pressing the enter ↵ key after you are done editing will permanently write the data to the meter's memory while pressing the escape/cancel ⊗ key returns to the last previous menu value. For more detailed information about operating your push button display, see Chapter 3: Operating & Programming, p. 25-28 in your Instruction Manual.

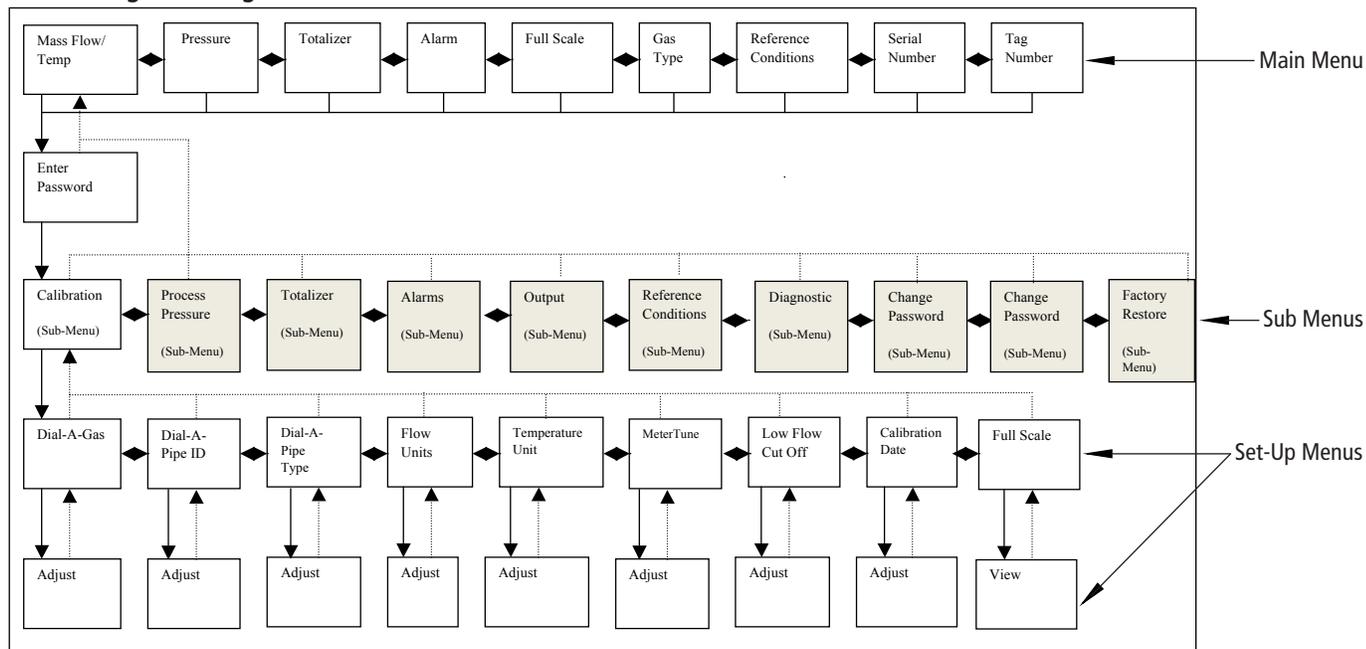
Changing Application Information In The Field Using qTherm Dial-A-Gas® & Dial-A-Pipe™

The meter comes programmed from the factory with your application information, but it is easy to change this information using Sierra's unique qTherm Dial-A-Gas® and Dial-A-Pipe™ feature. You can access both features using either the push buttons on the display or an RS-232 connection between your computer and the meter using the provided Smart Interface Program (SIP) Software.

Using Your Display to Change Gas and Pipe Size: qTherm Dial-A-Gas & Dial-A-Pipe

- To access this Dial-A-Gas and Dial-A-Pipe information in the Sub-Menu of the display, enter the meter's password. From the scrolling menu, press the enter ↵ key, and you will be asked for a password. Enter 0000 for the password (it is already there by default and can be changed later); then press the enter ↵ key. You will arrive at the Calibration Sub-Menu. From here, press the enter ↵ key. See menu navigation diagram below or p. 28-29 in the Instruction Manual for more information.
- qTherm Dial-A-Gas: Change Gas**
To change and select your gas, the display will show "Dial-A-Gas" with the principal gas listed from your application datasheet (ADS), hit the enter ↵ key, and it will begin to flash; use the ▲▼ buttons to scroll through the other gases. Hit enter ↵ to select another gas. See sub-menu diagram below or p. 30 of the Instruction Manual for more information about using the Dial-A-Gas feature.
- qTherm Dial-A-Pipe: Change Pipe Size**
Go to the Dial-A-Pipe menu to set the internal diameter (ID). Hit enter ↵ to enter a new pipe ID using the ▲▲▼▼ buttons to enter the desired value, and the enter key (↵) to save the value. Use a similar process to enter the pipe type (ex: stainless steel-smooth) and to select your engineering units. See table below or p. 29-32 in the Instruction Manual for more information

Menu Navigation Diagram



Using RS-232 & Smart Interface Program (SIP) Software to Change Gas and Pipe Size: Dial-A-Gas & Dial-A-Pipe

1. First, install the RS-232 cable (provided) using the diagram to the right.
2. Next, install the SIP program (see p. 61 in Instruction Manual):
 - Click on the file (640i & 780i Smart Interface Program). This file is self-extracting.
 - Follow instructions for installing the files.
 - The process takes 5 to 10 minutes total, depending on speed of your computer.
3. Run the program (note meter must be powered on to run the SIP program). The main home page interface (see Figure: 1 below).
4. From the home page, select the appropriate Com Port, and the IP will read the meter's parameters as defined by your application datasheet.

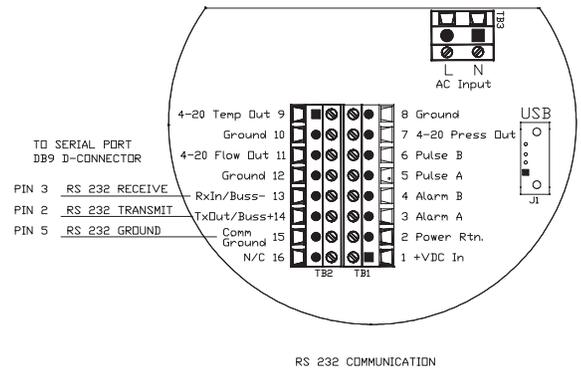
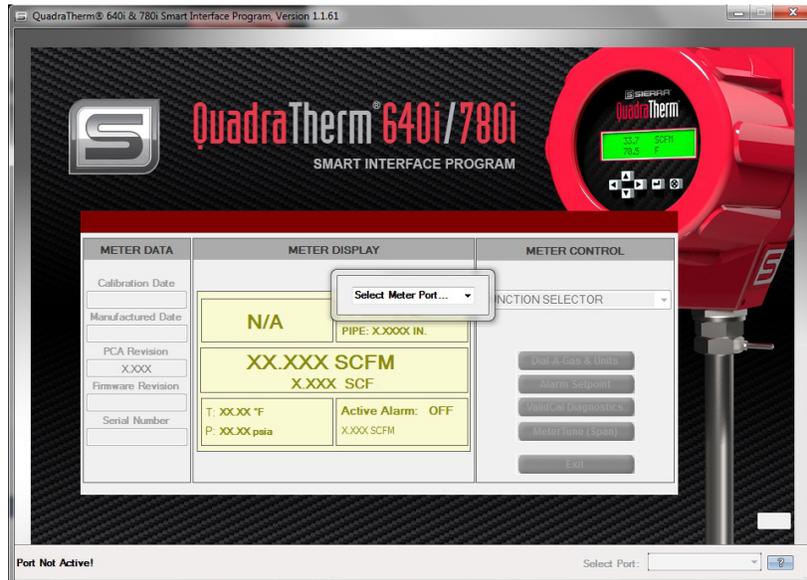


Figure: 1



5. qTherm Dial-A-Gas & Units

To change your gas and units, select the Dial-A-Gas & Units button on the home page under the meter control section. Use the pull down menus on the Dial-A-Gas screen (Figure: 2 below) to select your gas and units. Select Save and Exit to return to the main menu screen. See p. 66-68 in the Instruction Manual.

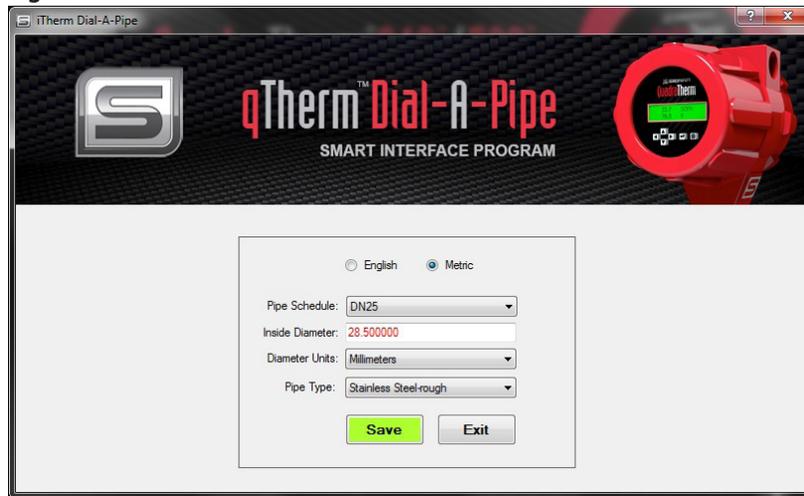
Figure: 2



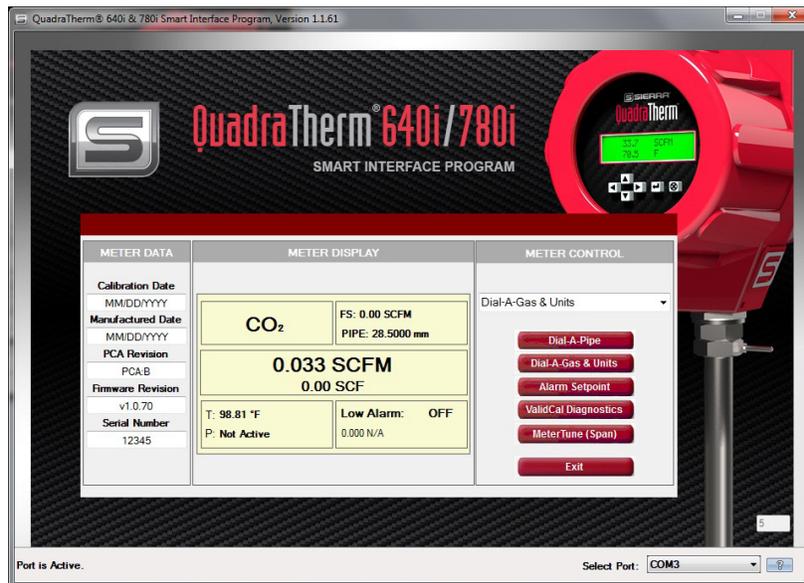
6. qTherm Dial-A-Pipe

To change your pipe properties select the Dial-A-Pipe button on the home screen (Figure: 1). Use the pull down menus in the qTherm Dial-A-Pipe screen (Figure: 3 below) to select your pipe properties. Select Save and Exit to return to the home screen. See p. 65 in the Instruction Manual.

Figure: 3



7. Your meter set-up is now complete. Your updated meter parameters can be viewed from the SIP main screen.



For More Information

If you need more in-depth instructions, please refer to your instruction manual. A downloadable version of the manual can be found on the Documents & Downloads page of our website www.sierrainstruments.com/quadrathermIM

Contact Us

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