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Certification Exhibit

FCC ID: SDB100A

IC: 2220A-100A

FCC Rule Part: 15.209

IC Radio Standards Specification: RSS-210

ACS Report Number: 09-0031 - 15C

Manufacturer: Sensus Metering Systems, Inc.

Model: 100A

Users Manual



Owner and User Manual:

UniPro/OMNI Communicator Model 100A

Revision 1

Revisions

Rev No.	Date	Description
Rev 1	1/28/2009	Initial release

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Sensus

1501 Ardmore Boulevard, Suite 601

Pittsburgh, PA 15221 USA

1-800-METER-IT (638-3748)

1-800-888-2403 (fax)

www.sensus.com

Document:

UniPro/OMNI Communicator Model 100A

Document Number:

WRMTM-40000

Warning: Changes or modifications to this device not expressly approved by Sensus Metering Systems could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment is in direct contact with the body of the user under normal operating conditions. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Cet appareillage numérique de la classe B répond à toutes les exigences de l'interférence canadienne causant des règlements d'équipement. L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence nocive, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée.

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1 Overview of UniPro

The UniPro application programs, logs data from, and tests T²/C²/F² meters. Versions of the software have been created for both a laptop PC and the Sensus AR5000 Handheld/AutoRead.

A separate hardware interface device (communicator 100A) allows the meter to be read, etc. using the laptop's USB port and the AR5000's serial port.

Figure 1-1 shows the basic screen for the UniPro software.

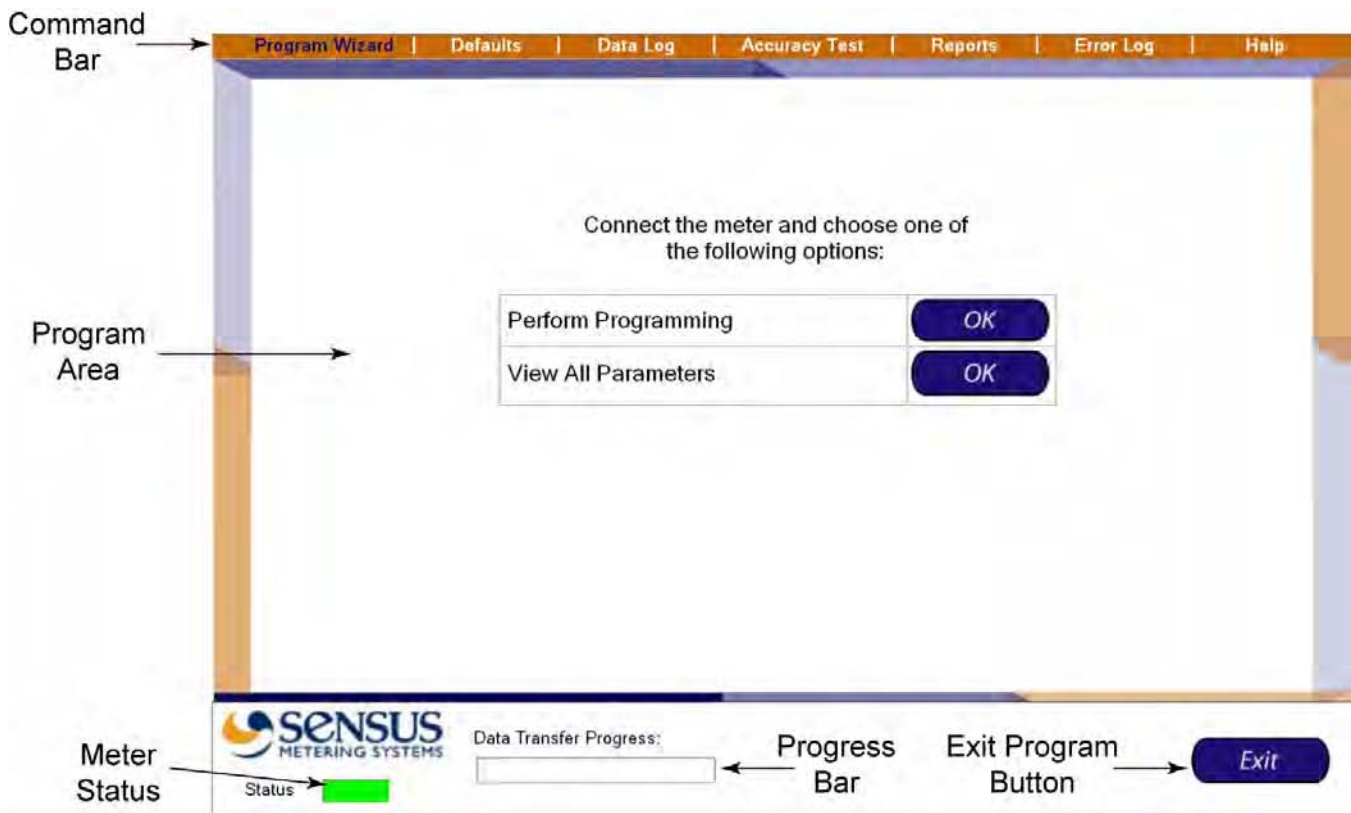


Figure 1-1: Screen Layout for UniPro

Command Bar: Contains the commands to open the various program elements.

Program Area: Displays the program elements.

Meter Status: Green indicates the meter is properly linked; red indicates the meter is not properly linked.

Progress Bar: When data is read from the meter, the progress bar indicates the progress of the transfer.

Exit Program Button: Select the Exit button to end the program.

2 Hardware Setup

2.1 Attaching the Hardware

1. Attach the USB connector from the OMNI Communicator 100A to any available USB port on your laptop.
2. Check your Device Manager to determine the USB port's Com Port designation.
3. Select **Start**→**Control Panel**→**System**→**Hardware Tab**→**Device Manager**. The Device Manager window looks similar to the one shown in Figure 2-1.

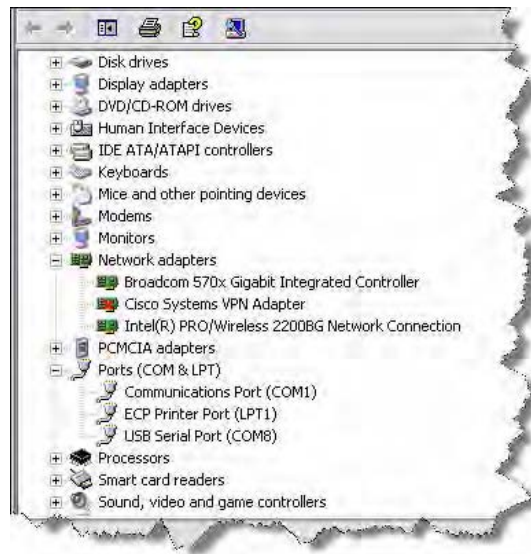


Figure 2-1: Typical Device Manager Window

4. Select Ports in the list and note the USB Serial Port COM assignment (COM8 in the illustration).

2.2 Setting the COM Port

1. Double-click on the UniPro icon on your desktop. The UniPro Program Wizard screen is displayed (see Figure 2-2).

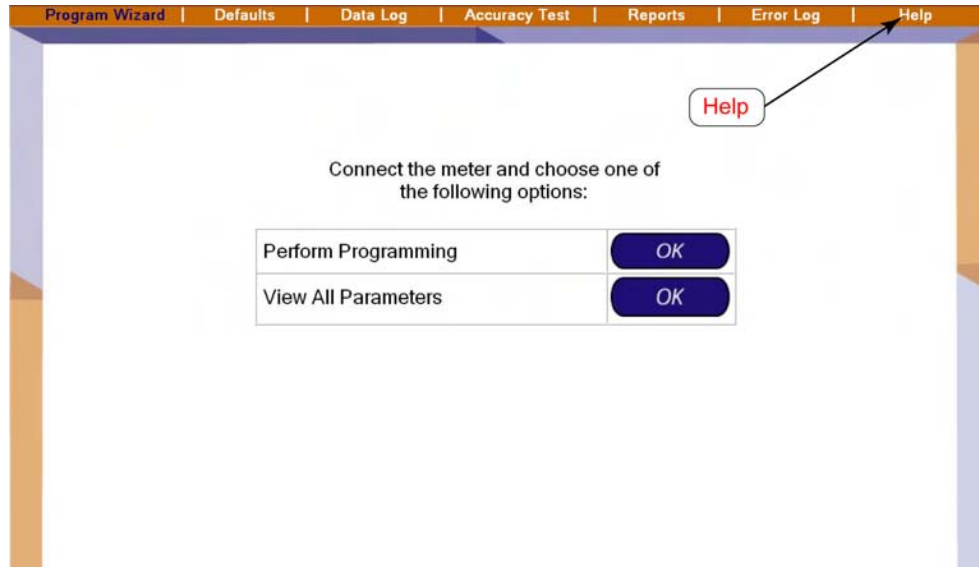


Figure 2-2: Selecting Help

2. Click **Help** in the Menu Bar.
The Help/Communications Port screen is displayed as shown in Figure 2-3.

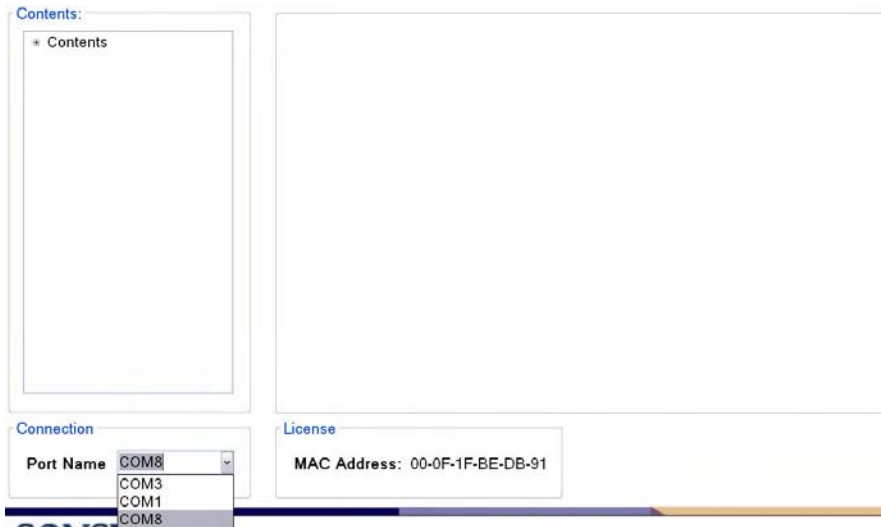
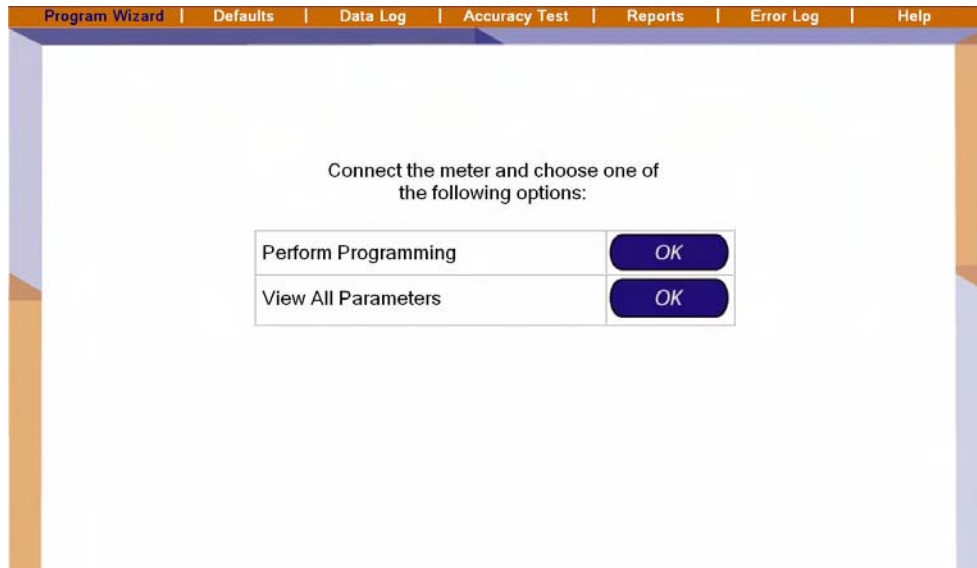


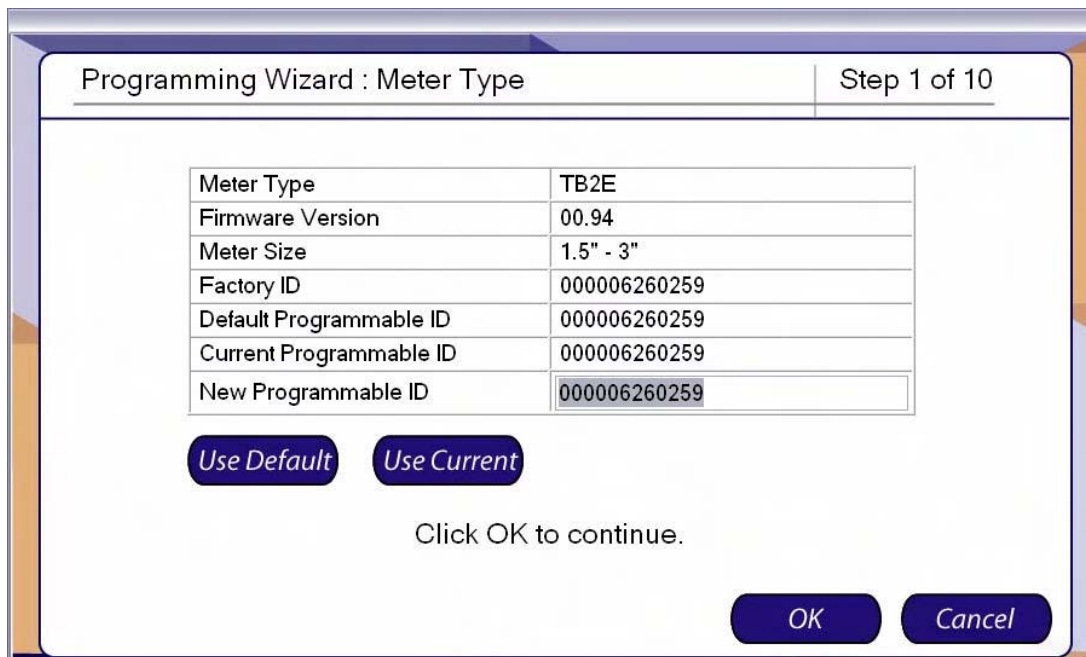
Figure 2-3: Help/Connection Screen

3. In the lower left corner, in the Connection partition, select the proper COM port from Step 4 of Section 2.2.
4. Click **Program Wizard** to return to the Program Wizard screen.

3 Programming an OMNI T²/C²/F² Register



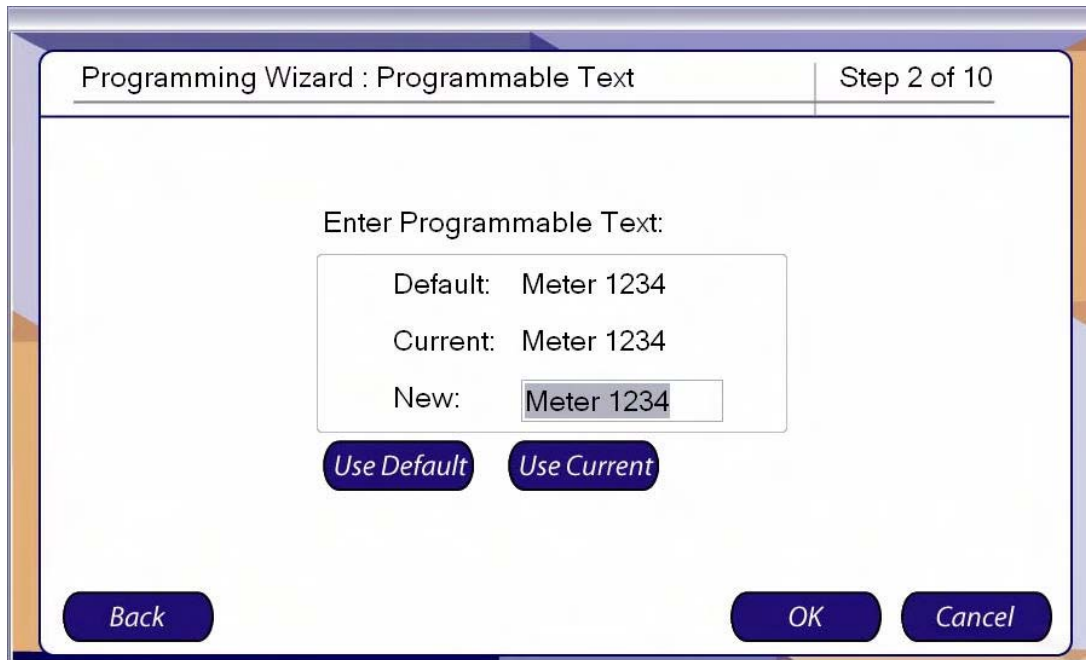
1. From the Program Wizard screen, click the **OK** button to the right of Perform Programming. The system displays the Programming Wizard: Meter Type screen.



The Programmable ID identifies the particular meter to the data retrieval system.

2. Select from three options:
 - Click the **Use Default** button to select the Default Programmable ID.

- Click the **Use Current** button to select the Current Programmable ID.
 - Type in a new ID in the **New Programmable ID** field.
3. Click the **OK** button to display the Programmable Text screen.




Programmable Text is used in the data retrieval system as XXXXXXXXXXXXXXXXXXXX.

4. Select from three options:
 - Click the **Use Default** button to select the Default Programmable Text.
 - Click the **Use Current** button to select the Current Programmable Text.
 - Type in new text in the **New** field.
5. Click:
 - **Back** to return to the Programmable ID screen.
 - **Cancel** to stop programming and return to the Program Wizard screen.
 - **OK** to accept the Programmable Text and display the Reading Digits screen.

The Reading Digits screen allows you to set the number of digits that are displayed on the register and the units of measure for the reading.

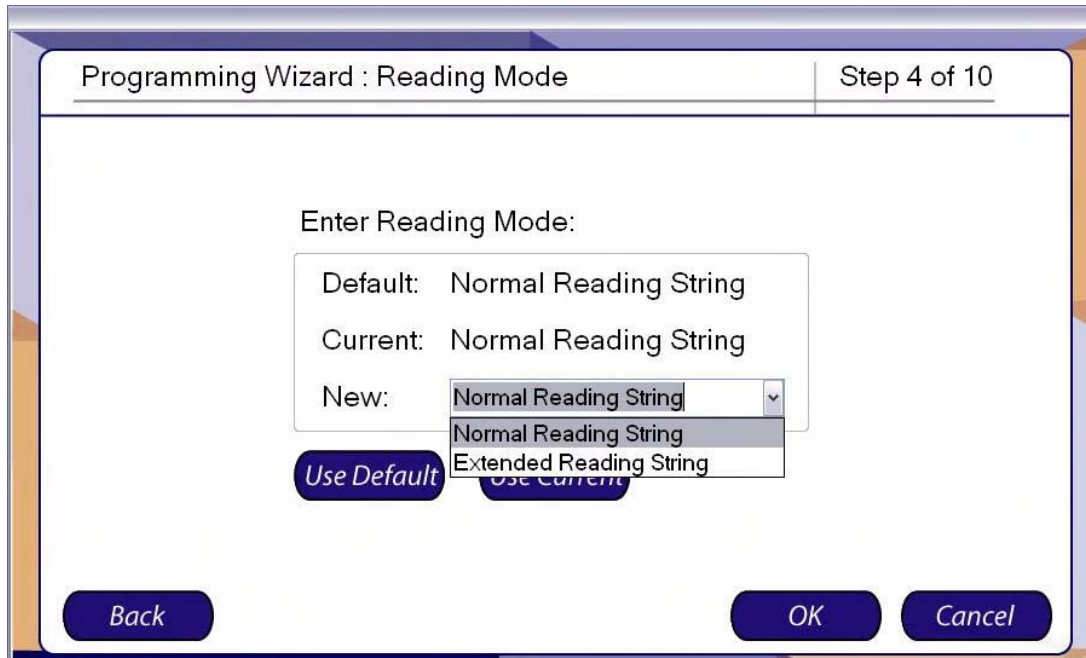
The window lists the Default settings and the Current settings; the Resolution sections automatically calculate the resulting AMR and Total display resolutions for the settings.

6. Select from three options:
 - Click the **Use Default** button to select the Default Reading Digits.
 - Click the **Use Current** button to select the Current Reading Digits.
 - Select a New set of reading digits by clicking the first and last digits of the range you wish to display. For example to display the least significant four digits click the 4 box, then the 2 box. The selected digits will display a white background and the unselected digits will display a gray background.
7. Select a Units of Measure from the drop-down list.



If you do not make one of the above selections, the system will automatically use the Default settings.

8. Click:
 - Back to return to the Programmable Text screen.
 - Cancel to stop programming and return to the Program Wizard screen.
 - OK to accept the Reading Digits and display the Reading Mode screen.



With a Normal Reading String, the data stream from the register contains the meter reading and the Meter ID only. With an Extended Reading string, the data stream includes information such as the manufacturer fields and meter/register specific data.

9. Select from three options:

- Click the **Use Default** button to select the Default Reading Mode.
- Click the **Use Current** button to select the Current Reading Mode.
- Use the drop-down list in the **New** field to select either the Normal or Extend Reading String.

10. Click:

- **Back** to return to the Reading Digits screen.
- **Cancel** to stop programming and return to the Program Wizard screen.
- **OK** to accept the Reading String and display the Pulse Output screen.

Programming Wizard : Pulse Output Step 5 of 10

Default

Pulse Output: *****

Units of Measure: Gallons

Resolution: 0.01s

Current

Pulse Output: *****

Units of Measure: Cubic Meters

Resolution: 1E+252s

New

8 7 6 5 4 3 2 1 , .

Units of Measure: Gallons Resolution: 0.01s

Use Default **Use Current**

Back **OK** **Cancel**

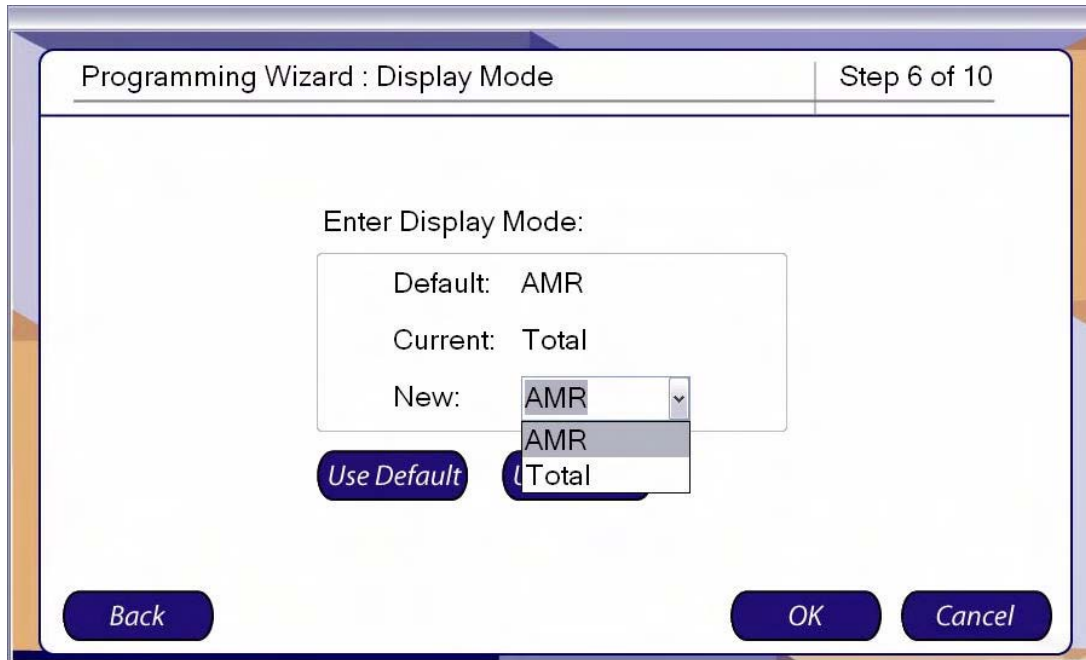
The Pulse Output determines the decimal place that a pulse represents in the pulse output. The screen displays the Default and Current settings with the Units of Measure and Resolution for each.

11. Select from three options:

- Click the **Use Default** button to select the Default Pulse Output.
- Click the **Use Current** button to select the Current Pulse Output.
- Select a New Pulse Output by clicking on the decimal place that you want a pulse to represent.

12. Click:

- **Back** to return to the Reading Mode screen.
- **Cancel** to stop programming and return to the Program Wizard screen.
- **OK** to accept the Pulse Output and display the Display Mode screen.



The Display Mode screen determines whether the display will show the Total or AMR output. The Total display will always show the full eight digits of the reading. The AMR output will display the output of the AMR register, selected in the Reading Digits screen.

13. Select from three options:

- Click the **Use Default** button to select the Default Display Mode.
- Click the **Use Current** button to select the Current Display Mode.
- Use the drop-down list in the **New** field to select either the Total or AMR Display Mode.

14. Click:

- **Back** to return to the Pulse Output screen.
- **Cancel** to stop programming and return to the Program Wizard screen.
- **OK** to accept the Display Mode and display the Summary screen.

Programming Wizard : Summary		Step 7 of 10	
Factory ID	000006260259		
Programmable ID	000006260259		
Programmable Text	Meter 1234		
Reading Digits	****4321		
Resolution	AMR	1s	Total 1s
Units of Measure	Gallons		
Reading Mode	Normal Reading String		
Pulse Output	*****		
Display Mode	AMR		

Click OK to perform programming or click Back to modify any values.

Back *OK* *Cancel*

The Summary screen shows the selections made in Steps 2 to 13.

15. Click:

- **Back** to return to the Display Mode screen.
- **Cancel** to stop programming and return to the Program Wizard screen.
- **OK** to accept the data as shown and program the register.

If you accept the data in Step 14, the system displays the Additional Meter Programming screen.

Programming Wizard :		Step 8 of 10	
<p>Would you like to program another meter with the same values?</p>			
<i>Yes</i>		<i>No</i>	

16. Click:

- **Yes** to program another meter with the same settings.

- **No** to discontinue programming and go the end screen (skip to Step 17).



17. Click:

- **Back** to return to the Additional Meter Programming screen.
- **Cancel** to stop programming and return to the Program Wizard screen.
- **OK** to program another meter with the same settings.



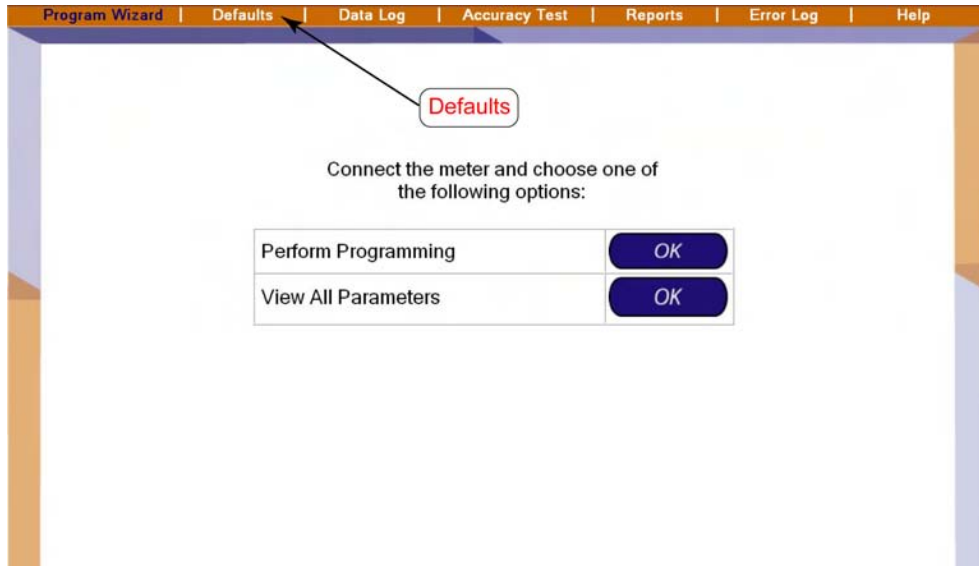
The Finished screen indicates that the register programming is complete.

18. Click **OK** to acknowledge the screen and return to the Program Wizard screen.

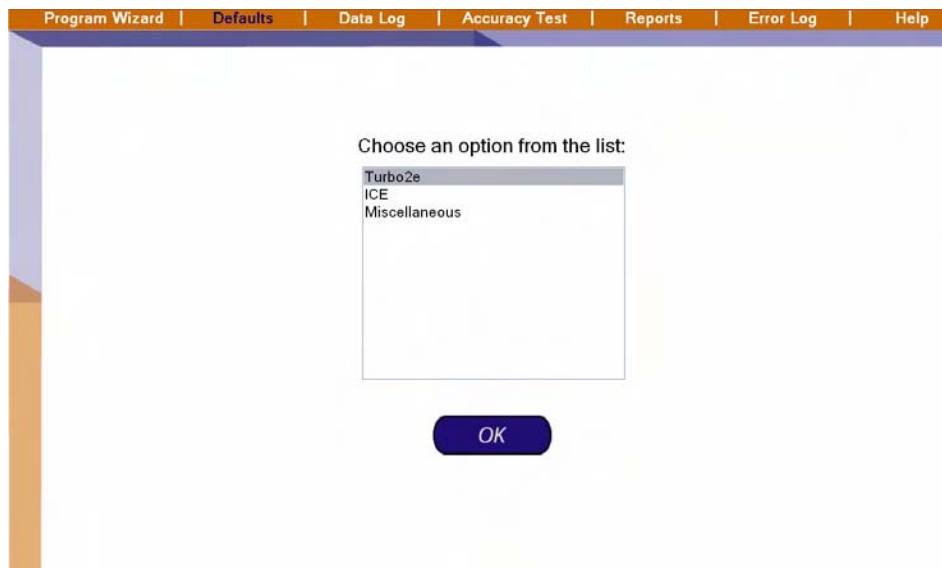
4 Setting Meter Defaults

4.1 Defaults Screen

From the Program Wizard screen:



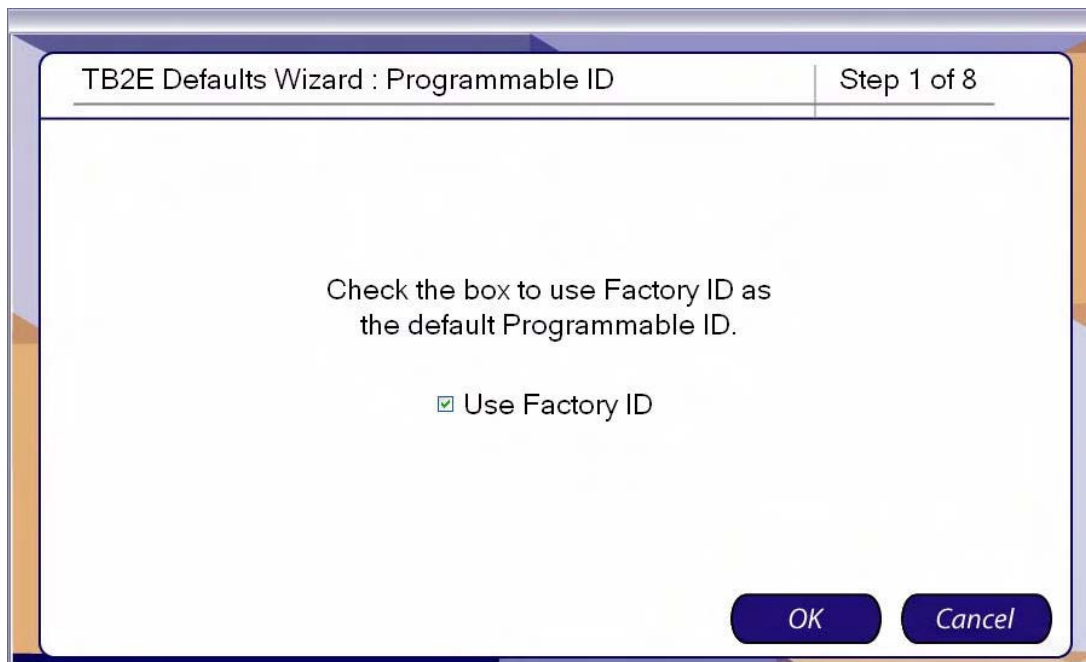
Click **Defaults** in the command bar to open the Default Options list.



4.2 Setting Turbo2e/OMNI Defaults

From the Defaults screen:

1. Click **Turbo2e** in the option list, then click **OK**.
The system displays the Programmable ID screen.



2. Check the box to use the Factory ID as the default Programmable ID.
Uncheck the box to enter your own Programmable ID.
3. Click:
 - **Cancel** to stop programming and return to the Default Options screen.
 - **OK** to display the Programmable Text default screen.

TB2E Defaults Wizard : Programmable Text | Step 2 of 8

Enter Programmable Text:

Meter 1234

Back OK Cancel

4. Enter the text you wish to serve as the default Programmable Text.
5. Click:
 - **Back** to return to the Programmable ID screen.
 - **Cancel** to stop programming and return to the Default Options screen.
 - **OK** to display the Reading Digits default screen.

TB2E Defaults Wizard : Reading Digits | Step 3 of 8

Enter Reading Digits and Units of Measure:

Reading Digits

8 7 6 5 4 3 2 1

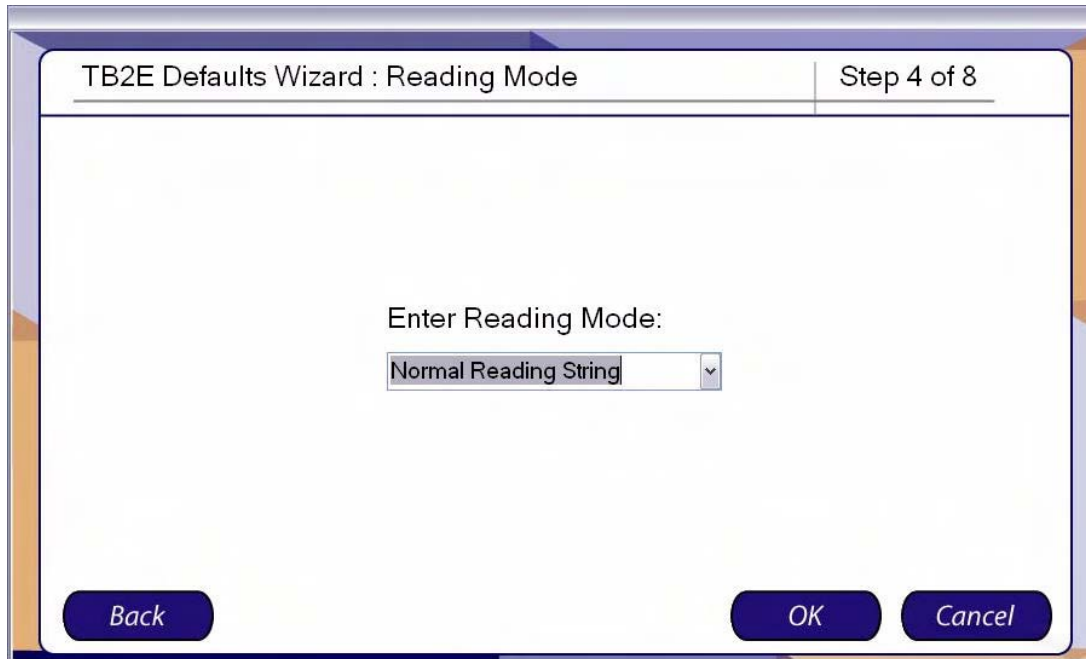
Units of Measure

Gallons

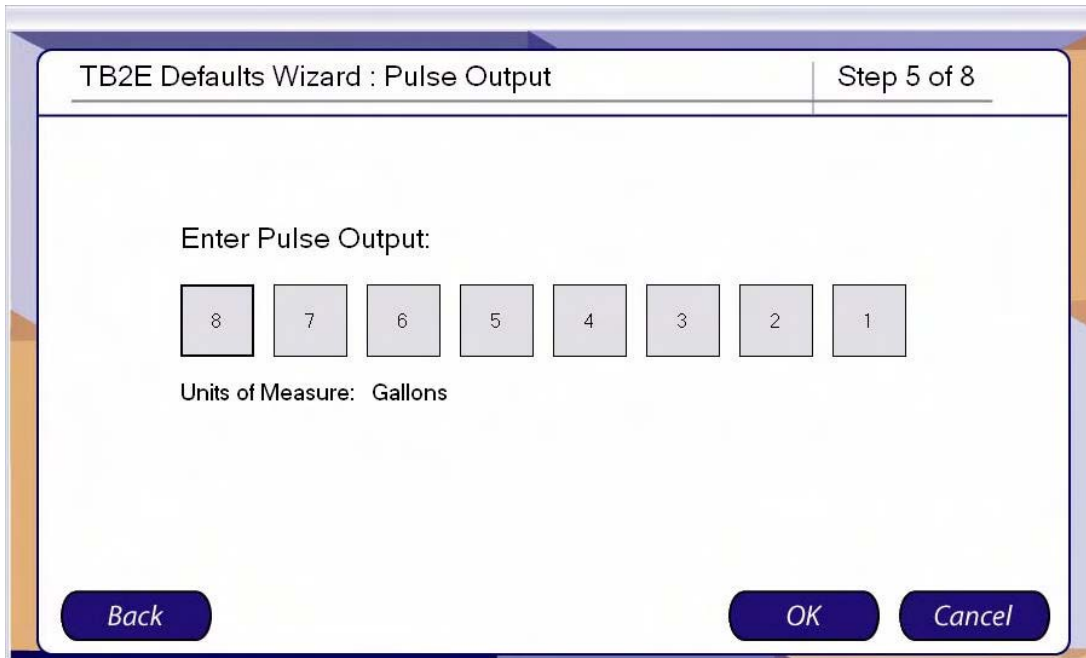
Back OK Cancel

The Reading Digits sets the number of digits that are displayed on the register and the units of measure for the reading.

6. Select a default set of reading digits by clicking the first and last digits of the range you wish to display. For example, to display the least significant four digits, click the 4 box then the 2 box. The selected digits will display a white background and the unselected digits will display a gray background.
7. Select the Units of Measure from the drop-down list.
8. Click:
 - **Back** to return to the Programmable Text screen.
 - **Cancel** to stop programming and return to the Default Options screen.
 - **OK** to display the Reading Mode default screen.



9. From the drop-down list, select Normal or Extended Reading String as the default Reading Mode.
10. Click:
 - **Back** to return to the Reading Digits screen.
 - **Cancel** to stop programming and return to the Default Options screen.
 - **OK** to display the Pulse Output default screen.

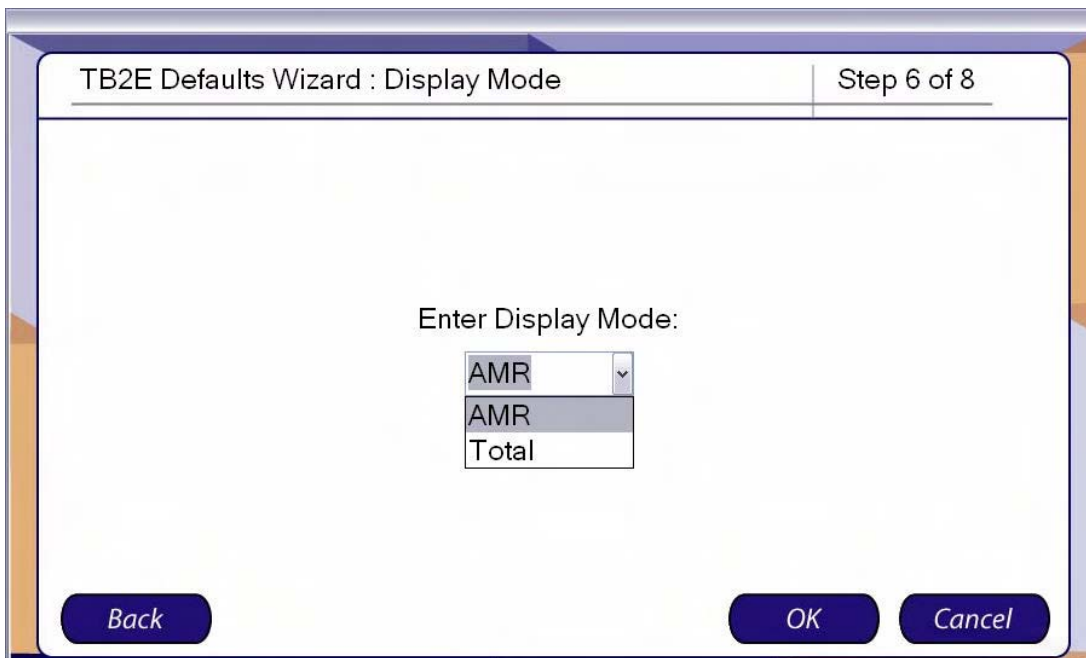


The Pulse Output determines the decimal place that a pulse represents in the pulse output.

11. Select the decimal place for the default Pulse Output.

12. Click:

- **Back** to return to the Reading Mode screen.
- **Cancel** to stop programming and return to the Default Options screen.
- **OK** to display the Display Mode default screen.



The Display Mode determines whether the display will show the Total or AMR output. The Total display will always show the full eight digits of the reading. The AMR output will display the output of the AMR register, selected in the Reading Digits screen.

13. From the drop-down list, select AMR or Total as the default Display Mode.

14. Click:

- **Back** to return to the Pulse Output screen.
- **Cancel** to stop programming and return to the Default Options screen.
- **OK** to display the Summary screen.

TB2E Defaults Wizard : Summary | Step 7 of 8

Programmable ID	Use Factory ID
Programmable Text	Meter 1234
Reading Digits	****4321
Units of Measure	Gallons
Reading Mode	Normal Reading String
Pulse Output	*****
Display Mode	AMR

Click OK to save defaults or click Back to modify any values.

Back **OK** **Cancel**

15. Click:

- **Back** to return to the Display Mode screen.
- **Cancel** to reject all defaults and return to the Default Options screen.
- **OK** to accept the data as shown and save the defaults.

If click **OK** in Step 14, the system displays the Defaults Finished screen.

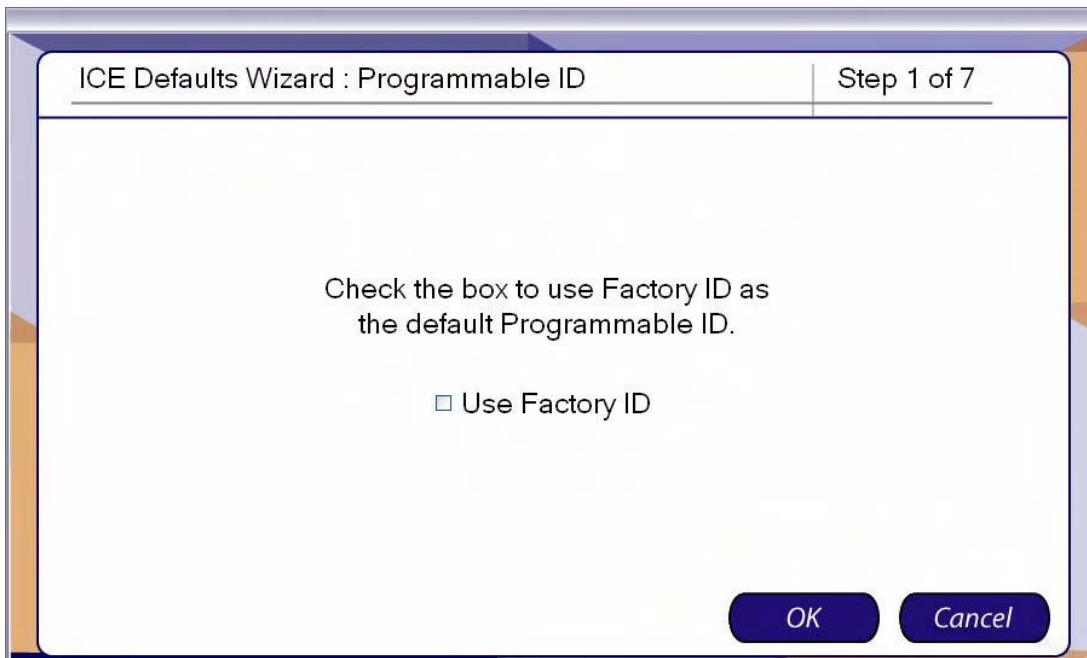


16. Click **OK** to return to the Default Options screen.

4.3 Setting ICE Defaults

From the Defaults screen:

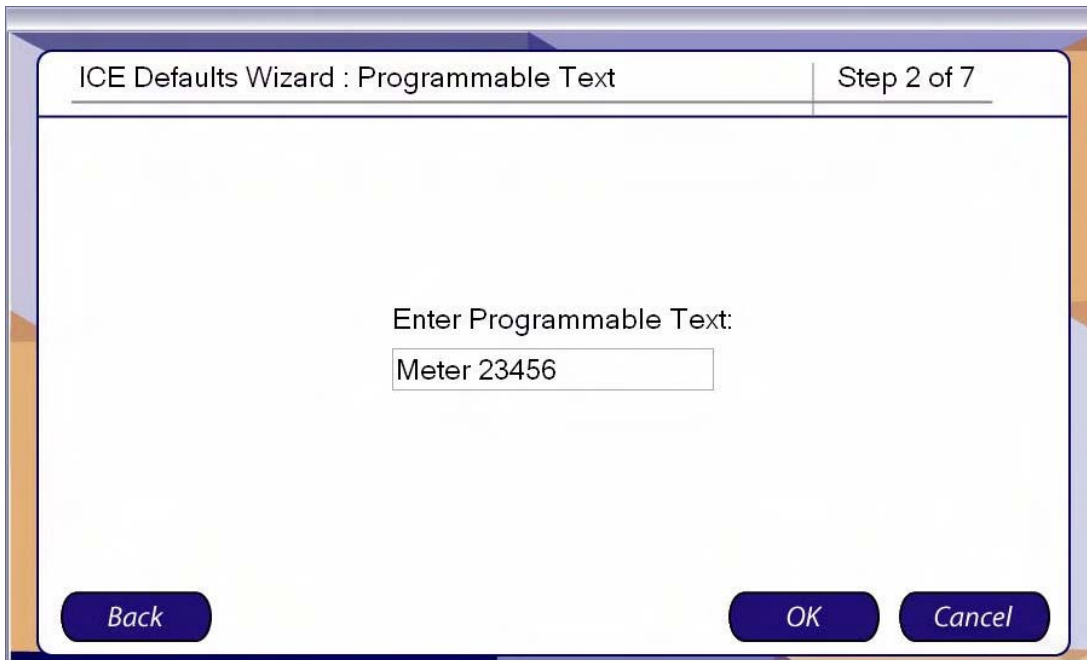
1. Click **ICE** in the option list, then click **OK**.
The system displays the Programmable ID screen.



2. Check the box to use the Factory ID as the default Programmable ID.
Uncheck the box to enter your own Programmable ID.

3. Click:

- **Cancel** to stop programming and return to the Default Options screen.
- **OK** to display the Programmable Text default screen.



ICE Defaults Wizard : Programmable Text | Step 2 of 7

Enter Programmable Text:

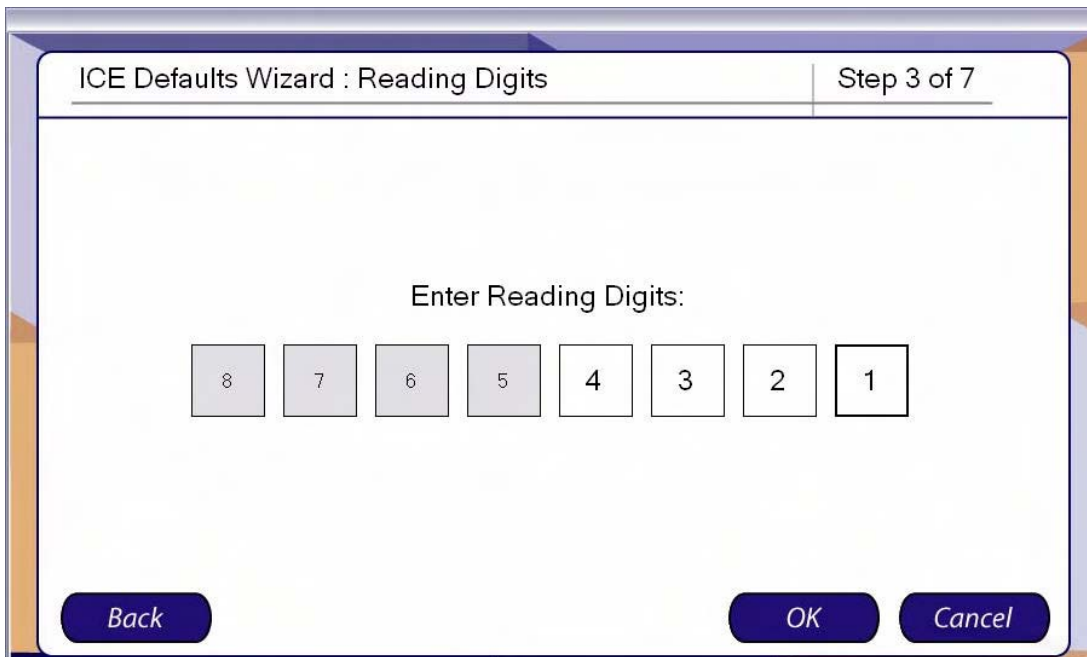
Meter 23456

Back OK Cancel

4. Enter the text you wish to serve as the default Programmable Text.

5. Click:

- **Back** to return to the Programmable ID screen.
- **Cancel** to stop programming and return to the Default Options screen.
- **OK** to display the Reading Digits default screen.



ICE Defaults Wizard : Reading Digits | Step 3 of 7

Enter Reading Digits:

8 7 6 5 4 3 2 1

Back OK Cancel

The Reading Digits sets the number of digits that are displayed on the register and the units of measure for the reading.

6. Select a default set of reading digits by clicking the first and last digits of the range you wish to display. For example, to display the least significant four digits, click the 4 box then the 2 box. The selected digits will display a white background and the unselected digits will display a gray background.
7. Click:
 - **Back** to return to the Programmable Text screen.
 - **Cancel** to stop programming and return to the Default Options screen.
 - **OK** to display the Reading Parameters default screen.

ICE Defaults Wizard : Reading Parameters | Step 4 of 7

Enter Reading Parameters:

Reading Multiplier

Choose a Multiplier from -99 to 99:

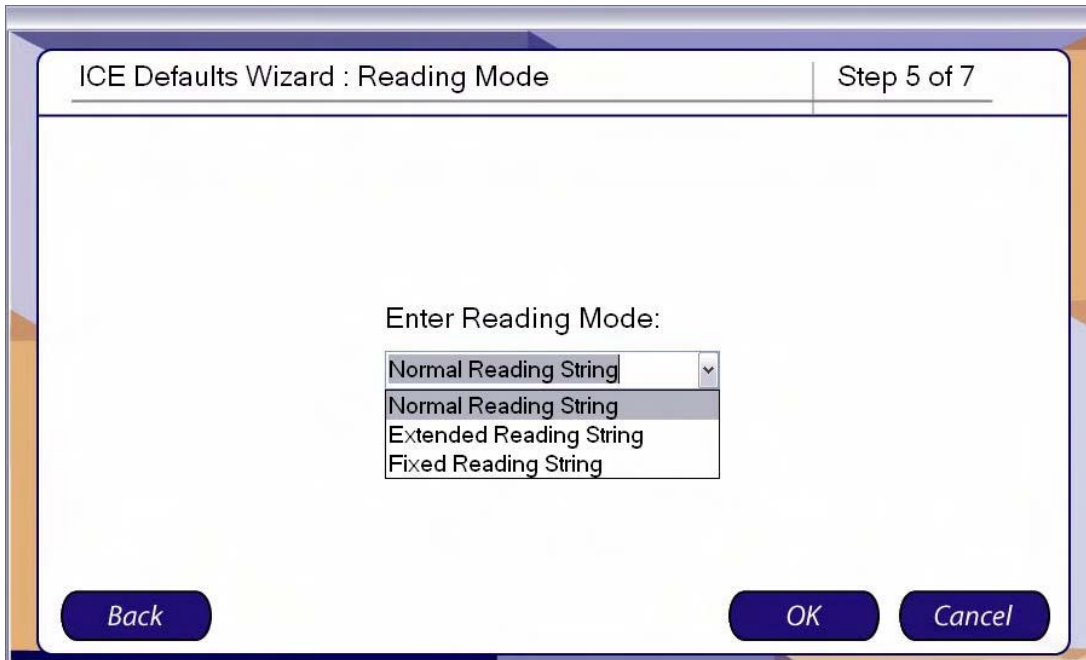
Disabled

Reading Unit

Cubic Meters
Cubic Meters
Cubic Feet
Cubic Inches
Cubic Yards
Gallons
Imperial Gallons
Acre Feet
Kiloliters

Back OK Cancel

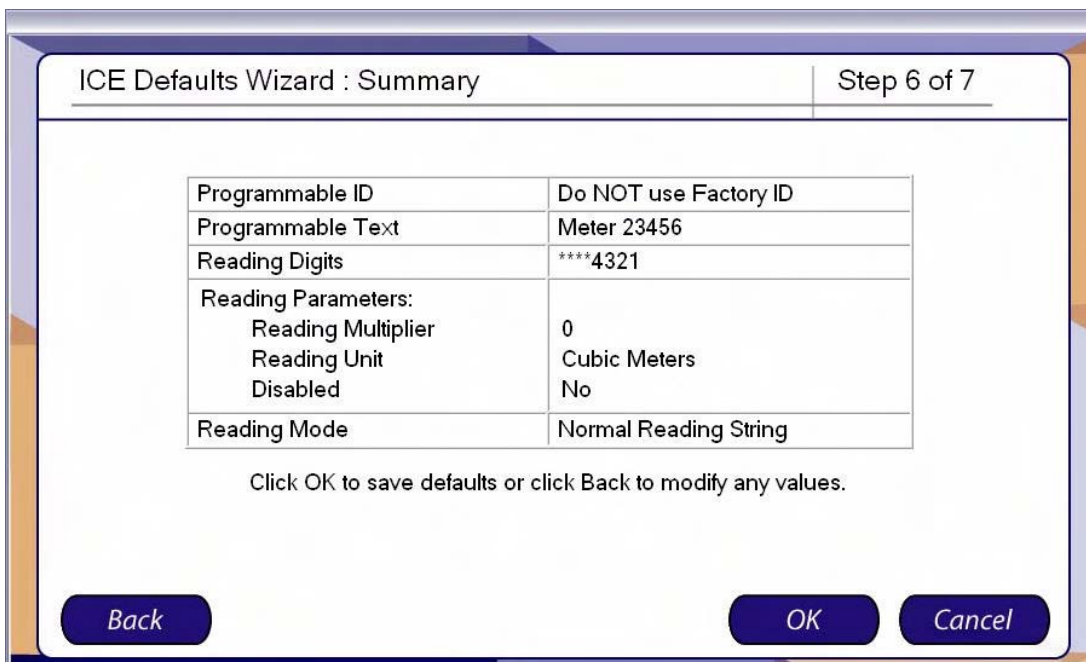
8. In the Reading Multiplier box, enter a default multiplier from -99 to 99.
9. In the Reading Unit drop-down, select a default unit.
10. Click:
 - **Back** to return to the Reading Digits screen.
 - **Cancel** to stop programming and return to the Default Options screen.
 - **OK** to display the Reading Mode default screen.



11. From the drop-down list, select Normal, Extended, or Fixed Reading String as the default Reading Mode.

12. Click:

- **Back** to return to the Reading Parameters screen.
- **Cancel** to stop programming and return to the Default Options screen.
- **OK** to display the Summary screen.



13. Click:

- **Back** to return to the Reading Mode screen.

- **Cancel** to reject all defaults and return to the Default Options screen.
- **OK** to accept the data as shown, save the defaults.

If click **OK** in Step 13, the system displays the Defaults Finished screen.

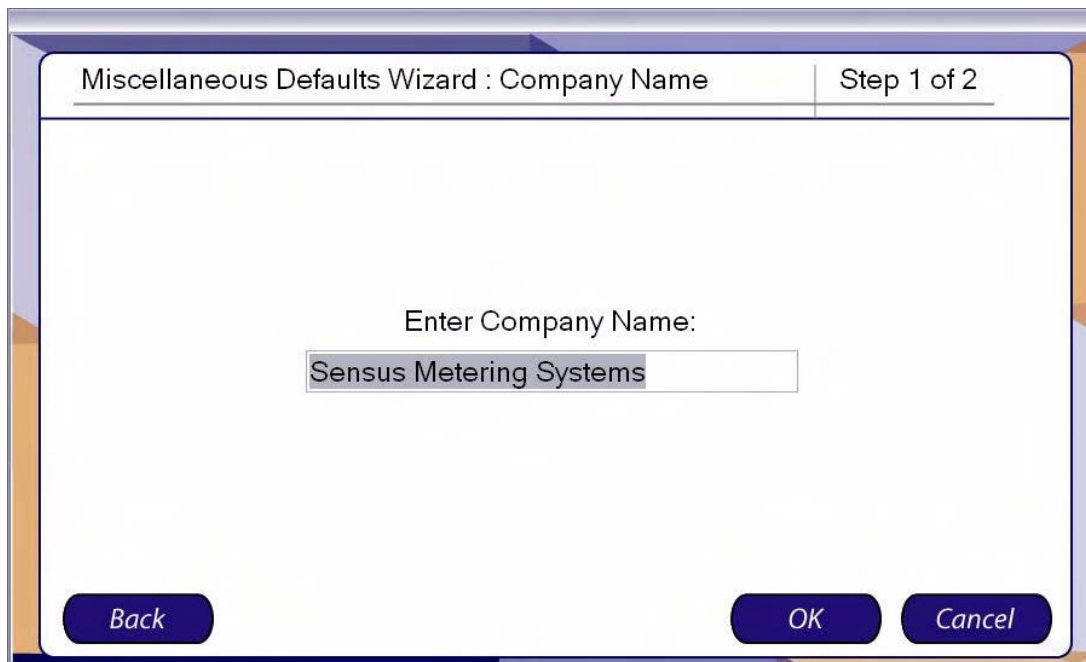


14. Click **OK** to return to the Default Options screen.

4.4 Setting Miscellaneous Defaults

From the Defaults screen:

1. Click **Miscellaneous** in the option list, then click **OK**.
The system displays the Programmable ID screen.



Miscellaneous Defaults Wizard : Company Name | Step 1 of 2

Enter Company Name:

Sensus Metering Systems

Back OK Cancel

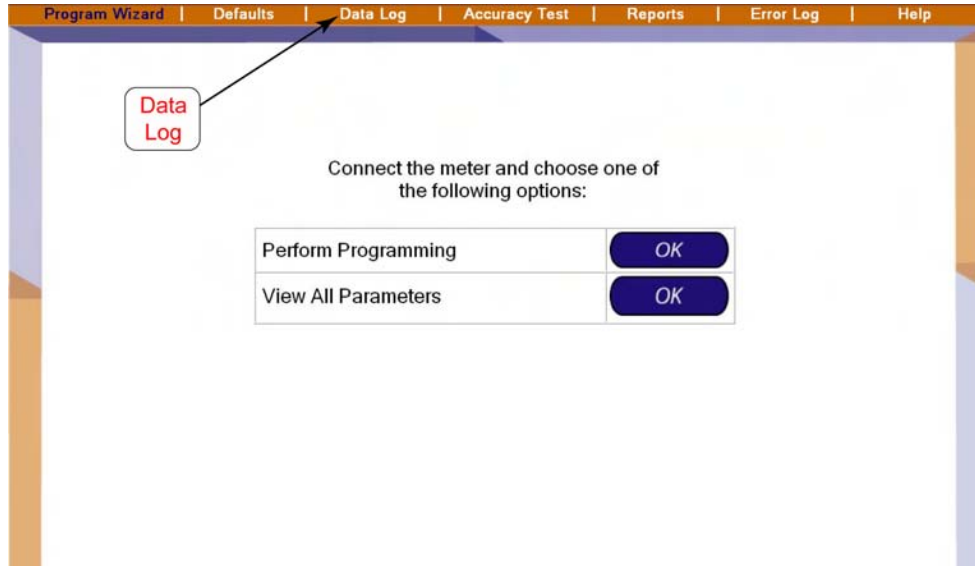
2. Enter your company name in the Company Name box.
3. Click:
 - **Back** to return to the Default Options screen.
 - **Cancel** to stop programming and return to the Default Options screen.
 - **OK** to display the Finished screen.



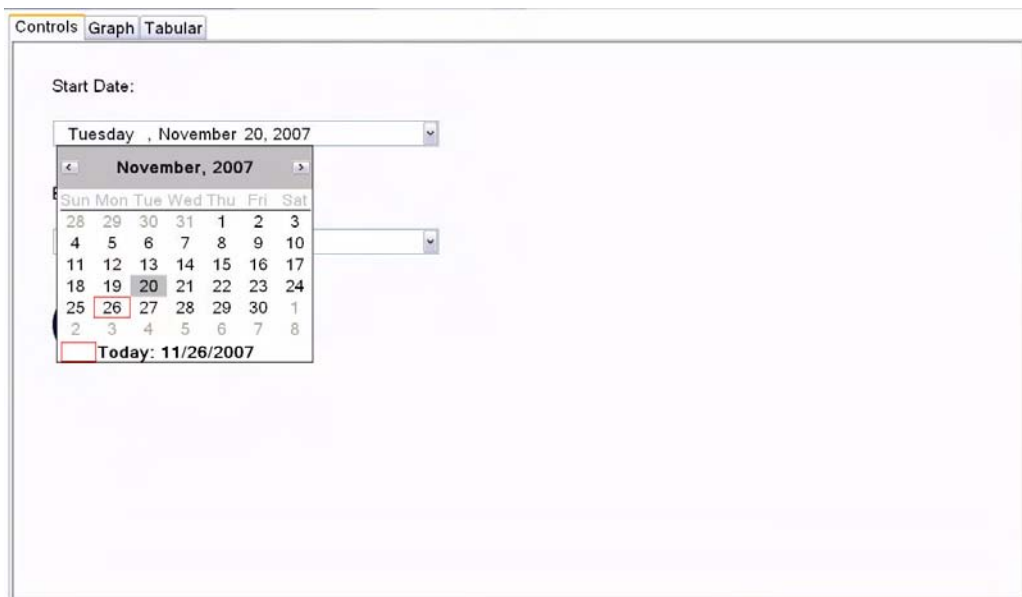
4. Click **OK** to return to the Default Options screen.

5 Data Log

1. Open UniPro or navigate to the Program Wizard screen:

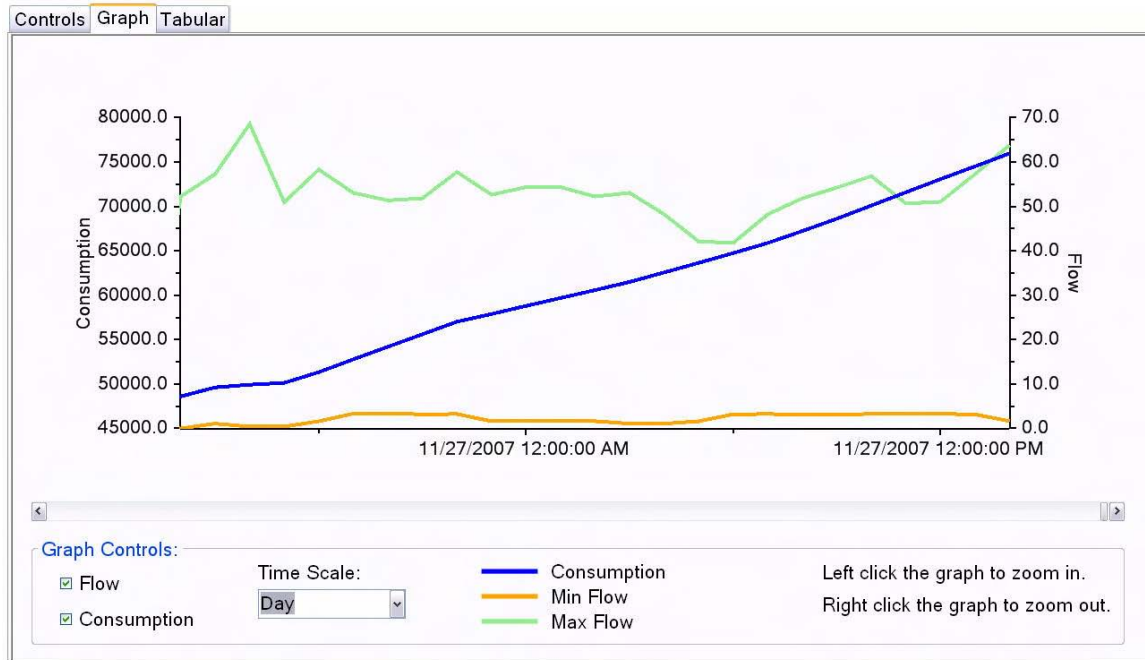


2. Select **Data Log** in the command bar to open the Data Log Controls screen:



3. Use the drop down list calendars to select a Start Date and End Date for the data read from the register.
The register retains up to 30 days of data. The default dates are the current date for the End Date and 30 days before the end date for the Start Date. The software will only accept a start date if it contains data. If the register contains less than 30 days, a popup window will appear to suggest the start date.

4. Click the **Read Meter** button.
The Data Transfer Progress bar shows the data transfer progress.
5. When the data transfer bar clears, select the Graph tab to view the data graph.



The graph charts Consumption, Minimum Flow, and Maximum Flow for the period defined in Step 3. The default time scale is Month. You can zoom in to a time scale of Week or Day by left-clicking on the graph or by selecting from the Time Scale drop down list. You can zoom out the time scale by right-clicking on the graph.

You can also click on Flow or Consumption on the left of the Graph Controls to view or not view the respective graph data.

6. Click the Tabular tab to view the data in table form.

Controls
Graph
Tabular

Date	Time	Min Flow	Max Flow	Consumption
11/26/2007	5:00 PM	0.410	50.955	50133
11/26/2007	6:00 PM	1.625	58.325	51340
11/26/2007	7:00 PM	3.342	53.069	52782
11/26/2007	8:00 PM	3.342	51.370	54203
11/26/2007	9:00 PM	3.191	51.843	55608
11/26/2007	10:00 PM	3.240	57.750	57024
11/26/2007	11:00 PM	1.638	52.654	57887
11/27/2007	12:00 AM	1.625	54.352	58799
11/27/2007	1:00 AM	1.645	54.352	59693
11/27/2007	2:00 AM	1.632	52.245	60582
11/27/2007	3:00 AM	1.087	53.069	61503
11/27/2007	4:00 AM	1.091	48.233	62571
11/27/2007	5:00 AM	1.619	42.123	63650
11/27/2007	6:00 AM	3.214	41.801	64753
11/27/2007	7:00 AM	3.240	48.233	65893
11/27/2007	8:00 AM	3.166	51.843	67235

Statistics:

Max. Flow:	72.333
Min. Flow:	0.000
Average Flow:	0.438
Average Consumption:	451
Total Consumption:	74378

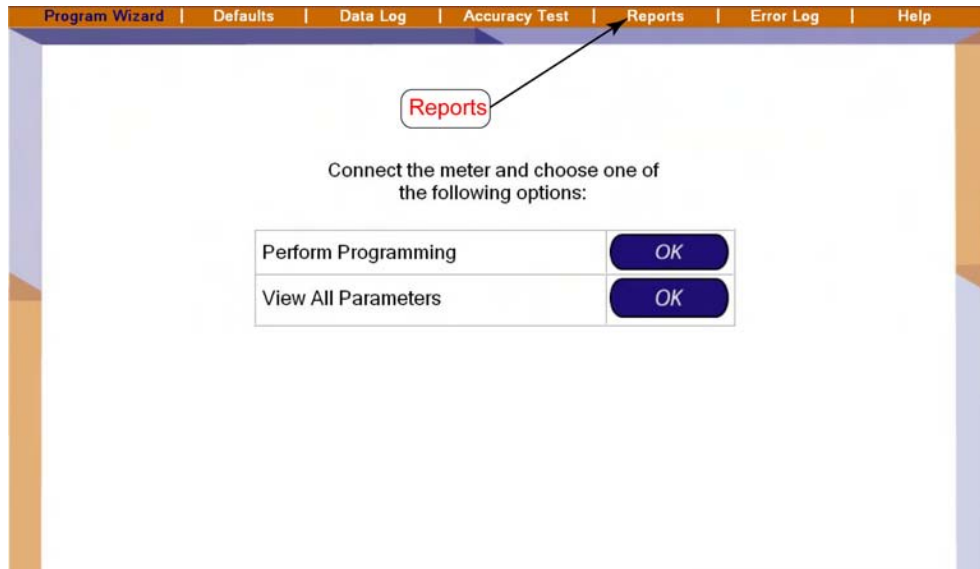
The Tabular view lists the Date, Time, Minimum Flow, Maximum Flow, and Consumption by hour for the period defined in Step 3. The Statistics box to the right of the table lists the Maximum Flow, Minimum Flow, and Total Consumption, and calculates the Average Flow and Average Consumption for the period.

6 Reports

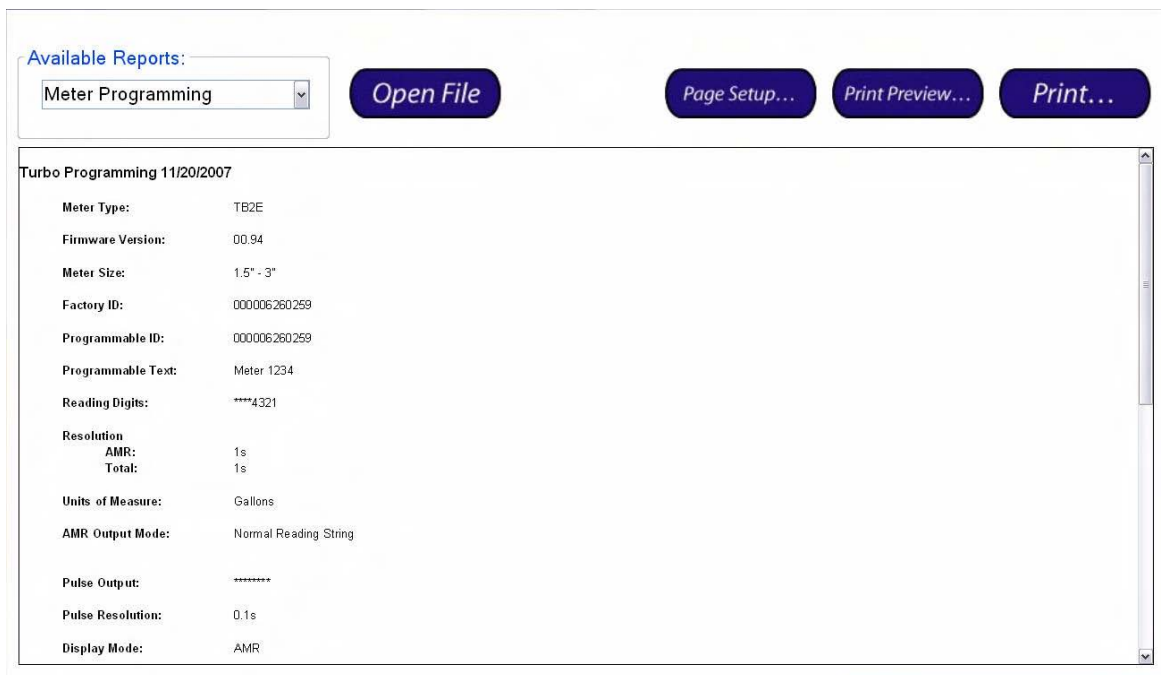
Three report types are available: Meter Programming, Data Logging, and Accuracy Testing. You can view the reports on your screen and you can print them.

6.1 Opening a Report

1. Click Reports in the command bar.



The system shows the Reports screen.



2. In the Available Reports section, select the type of report you want from the drop down list.
3. Click the **Open File** button.
A standard Windows Open dialog box opens.
4. Select the appropriate register type, ICE or Turbo and click the **Open** button.
The window presents the directory of stored reports. The reports are listed by the Programmable ID and the date and time that the report was stored. For example, a data log listed as **06230138_2007112680834** opens a report for meter ID 06230138 stored on 11/26/2007 at 8:08:34 a.m.
5. Select the date of the report you wish to view and click the **Open** button.
The screen shows the report you selected.

The following illustration shows a typical Data Log report.

The screenshot shows a software interface for viewing a report. At the top, there is a section labeled "Available Reports:" with a dropdown menu currently set to "Data Logging". To the right of the dropdown are four buttons: "Open File", "Page Setup...", "Print Preview...", and "Print...". Below this is a "Statistics" section with a table of summary data:

Max. Flow:	72.333
Min. Flow:	0.000
Average Flow:	0.509
Average Consumption:	341
Total Consumption:	48457

Below the statistics is a "Data Log" section containing a table with the following data:

Date	Time	Min Flow	Max Flow	Consumption
11/20/2007	5:00 PM	0.001	22.406	14
11/20/2007	6:00 PM	0.001	27.556	24
11/20/2007	7:00 PM	0.001	20.547	27
11/20/2007	8:00 PM	0.003	20.218	32
11/20/2007	9:00 PM	0.002	69.678	45
11/20/2007	10:00 PM	0.003	67.526	66
11/20/2007	11:00 PM	0.000	0.003	66
11/21/2007	12:00 AM	0.000	3.316	66
11/21/2007	1:00 AM	0.000	0.001	66
11/21/2007	2:00 AM	0.000	0.000	66

6. Use the scroll bars to view the remainder of the Data Log.

6.2 Printing a Report

To print the report you are viewing:

1. Click the **Page Setup...** button to review the default printer's page settings, such as orientation, margins, etc.
2. Click the **Print Preview...** button to review the appearance of the report.
3. Click the **Print...** button to open the Print dialog for your default printer.

7 Error Log

The Error Log displays UniPro operational errors and faults, and Omni register error codes.

7.1 Viewing and Acknowledging Errors

To view the Error Log screen, select Error Log in the command bar.

The top section of the Error Log screen displays the operational errors that have occurred. These include

ErrorID ShortDescription LongDescription Category

1Exception occurredA fatal error has occurred. Please contact 2
factory or service personnel.

2License Expiration WarningThe license is about to expire. Please obtain a 1
new license file.

3Communication TimeoutFailed to connect or communicate with the meter.1

4License ErrorInvalid license. Please obtain a new license file.2

5A non-fatal error has occurredA non-fatal error has occurred1

6There is no data to retrieve from the data log.There is no data to retrieve from the data log.1

7The connected meter does not support the Data The connected meter does not support the Data 1
Log featureLog feature.

8The connected meter does not support this The connected meter does not support this 1
feature.feature.

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