

Quick Installation Instructions for InnovaSonic® 205i

1. Operation of Keyboard (Figure1-1)

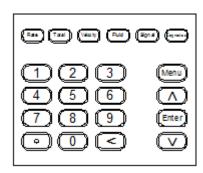
0~ **9** are the menu codes to input information required for the flow measurement exercise.

You can use ◀ to delete or move back to the previous data.

▲/+ ~ **▼/-** are to toggle up and down the menu.

After all data is selected, press **ENT** too confirm.

MENU is used to select a menu using two-digit numbers for each menu. For example, to enter pipe outside diameter, select MENU 1 1 to enter into the window ("MENU11" is the address code of the outer pipe diameter).



2. Transducer Connection (Figure 2-1).

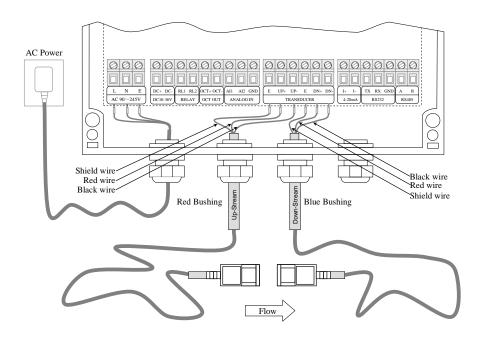
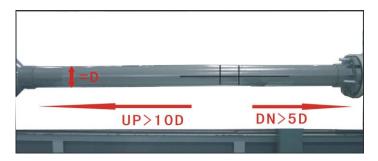


Figure (2-1) Connection of the flow meter's transducers

3. Measurement Site Selection (Figure 2-2)



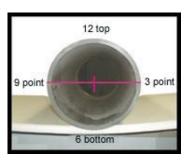


Figure 2-2 Installation at the 3 o'clock and 9 o'clock positions

Select the measurement site on a straight section of pipe with 10D (10 pipe diameters) upstream and 5D downstream. The transducers usually are installed at the site 3 o'clock and 9 o'clock positions, and avoid installation at 6 o'clock and 12 o'clock.

4. Installation and Debugging

Using this quick start installation procedure, the basic parameters needed for a quick startup can be easily done (inputs, such as the pipe outside diameters, pipe wall thickness, pipe material, fluid type, method of transducer installation, etc.). Also the distance (spacing) between the upstream and downstream transducers is automatically calculated by the flow meter in order to obtain the ultrasonic signal and to measure the flow. The main installation and debugging process as follows:

- 1. Power up the flow meter electronics
- 2. Select MENU 1 1 and enter the outside pipe diameter



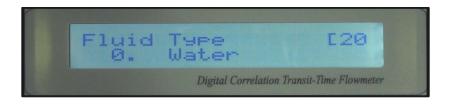
3. Select MENU 1 2 and enter input the pipe wall thickness



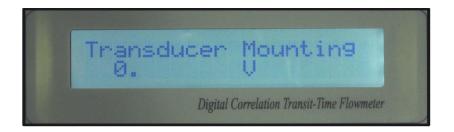
4. Select MENU 1 4 and choose the pipe material



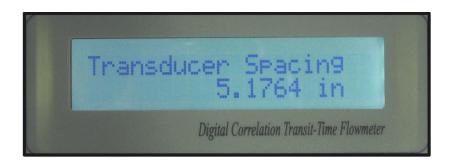
5. Select MENU 2 0 and choose the fluid type



6. Select MENU 2 4 and choose the transducer mounting method

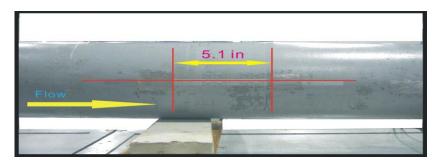


7. Select MENU 2 5 and see the calculated transducer spacing

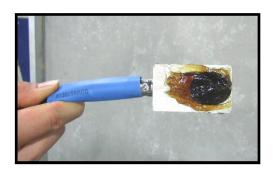


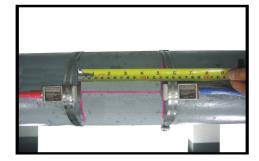
8. Use the calculated data for transducer spacing for installation



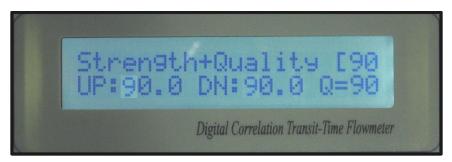


8.2 Applying coupling grease and mounting transducers





9. Select MENU 9 0 and see the signal strength of the installed transducers.

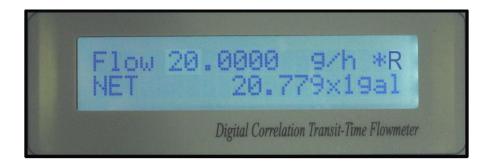


(When the UP and DN signal strength is at least 60, the signal quality is at least 50, the flow meter is functioning well.)

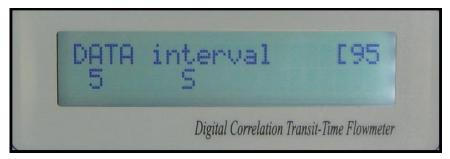
10. Select MENU 9 1 to check TOM/TOS*100, (it should be 100±3%)



11. Select MENU 0 0 to read the instantaneous and totalizing flow.



12. Select MENU 9 5 and setup the data collection interval of SD card.



NOTE: The information presented is for a quick start-up for the InnovaSonic 205i. Other parameters are referenced in the 205i Manual.

Email Technical Support: <u>service@sierrainstruments.com</u>

24 Hour Live Help Online: www.sierrainstruments.com (Click "Sales & Service" button)

Telephone Technical Support: North America: 800.866.0200 or 831.373.0200 ; **Europe, Middle East, Africa** + 31 72 5071 400 ; **Asia:** + 8620 3435 4870