Programming the Calibration Factor for CF-LP Clamp-on Transducers

Your CF-LP clamp-on transducers now come with a calibration factor with a calibration certificate. This calibration factor must be programmed into the meter. If you purchased a meter with the CF-LP transducers, the calibration factor will already be set and will not need to be programmed in the field.

The calibration factor will appear on the CF-LP transducer mounting rail as seen below:

Programming the Calibration Factor

If you purchased a meter with the CF-LP transducers, the calibration factor will already be set and will not need to be programmed in the field. For programming, please refer to the specific meter instruction manuals.

The following is a quick step by step procedure based on the specific meter's manual as a reference:

AT868

1. Press [ESC], [ENTER], [ESC]. The meter enters the User Program.

2. Press [X] until PROG appears and press [ENTER].

3. Press [X] until the desired channel appears. Press [ENTER] at CH1 or CH2.

4. Press [X] until PIPE appears and press [ENTER]

5. Once in the PIPE menu, the meter interface will guide the user through entering information about the parameters listed below. Enter or confirm that the information entered is correct and press [ENTER] at each step to walk through the interface:

   a. TRANSDUCER NUMBER

   b. PIPE OD

   c. PATH LENGTH P

   d. AXIAL LENGTH L

   e. TRACKING WINDOWS

   f. FLUID TYPE

   g. FLUID SOUNDSPEED

   h. REYNOLDS CORRECTION

6. After selecting the option for REYNOLDS CORRECTION, the meter interface will be directed to the CALIBRATION FACTOR screen. Enter the calibration factor engraved on the mounting rail. If there is no engraving, enter a calibration factor of 1.000. Press [ENTER].

7. Press [ESC] until you are out of the User Program.

Note: *For a visual representation of the steps above, please refer to the menu map (Figure A-1) in Appendix A of the AT868 User Manual.*

DF868

1. To enter the Channel PROGRAM menu, press [F1] or [F2] (depending on the desired channel) at the User Program prompt.

2. Enter the PIPE submenu by pressing [F3] at the Channel PROGRAM prompt.

3. Once in the PIPE submenu, the meter interface will guide the user through entering information about the parameters listed below. Enter or confirm that the information entered is correct and press [ENT] at each step to walk through the interface:

   a. TRANSDUCER NUMBER

   b. PIPE OD

   c. PATH LENGTH P

   d. AXIAL LENGTH L

   e. TRACKING WINDOWS

   f. FLUID TYPE

   g. FLUID SOUNDSPEED

   h. REYNOLDS CORRECTION

4. After selecting the option for REYNOLDS CORRECTION, the meter interface will be directed to the CALIBRATION FACTOR screen. Enter the calibration factor engraved on the mounting rail. If there is no engraving, enter a calibration factor of 1.000. Press [ENTER].

5. Press [ESC] until you are out of the User Program.

Note: *For a visual representation of the steps above, please refer to the menu map (Figure A-1) in Appendix A of the DF868 Programming Manual.*

PT878

1. Press ESC until you are at the home screen (where pressing ESC no longer changes the screen).

2. Press the Menu key.

3. Using the arrow keys, scroll to *Program*. Press ENTER.

4. Using the arrow keys, scroll to *Correction Factors*. Press ENTER.

5. Using the arrow keys, scroll to the *Calibration Factor* tab. Press ENTER.

6. Using the arrow keys, scroll to the first set of radio buttons to turn the Calibration Factor *On*.

7. Using the arrow keys, scroll to the next set of radio buttons and choose *Single* K-Factor.

8. Using the arrow keys, scroll to the *Meter K-Factor* entry. Press ENTER.

9. In the dialog box, enter the *Calibration Factor* engraved on the mounting rail. If there is no engraving, enter 1.000. Press ENTER.

10. Press the F3 (OK) button to accept the changes.

Note: *For a visual representation of the steps above, please refer to the menu map (Figure 152) in the PT878 User Manual.*

XMT868i

1. Press [ESC], [ENTER], [ESC]. The meter enters the *Keypad Program*.

2. Press [X] until PROG appears and press [ENTER].

3. Press [X] until the desired channel appears. Press [ENTER] at CH1 or CH2.

4. Press [X] until PIPE appears and press [ENTER].

5. Once in the PIPE submenu, the meter interface will guide the user through entering information about the parameters listed below. Enter or confirm that the information entered is correct and press [ENTER] at each step to walk through the interface:

   a. TRANSDUCER NUMBER

   b. PIPE OD

   c. PATH LENGTH P

   d. AXIAL LENGTH L

   e. TRACKING WINDOWS

   f. FLUID TYPE

   g. FLUID SOUNDSPEED

   h. REYNOLDS CORRECTION

6. After selecting the option for REYNOLDS CORRECTION, the meter interface will be directed to the CALIBRATION FACTOR screen. Enter the calibration factor engraved on the mounting rail. If there is no engraving, enter a calibration factor of 1.000. Press [ENTER].

7. Press [ESC] until you are out of the *Keypad Program*.

Note: *For a visual representation of the steps above, please refer to the menu map (Figure 29) in the XMT868i Programming Manual.*