## 1. Enviro-T's Trim Pot Adjustments

The Enviro-T In-Line Fluorometer has two adjustment (Trim) pots that are used to set the Enviro-T's measuring range (Figure 1). These Trim pots have a maximum of 25 full rotations or turns.

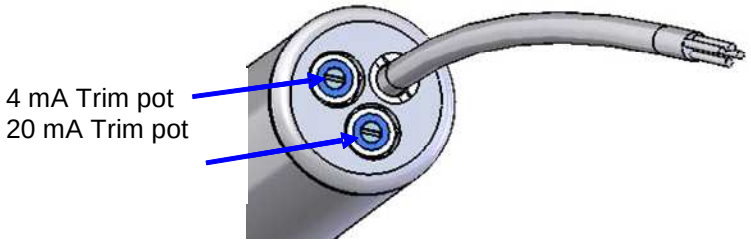


Figure 1

Turning the Trim pot clockwise increases the signal; turning the Trim pot counterclockwise decreases the signal (Figure 2).

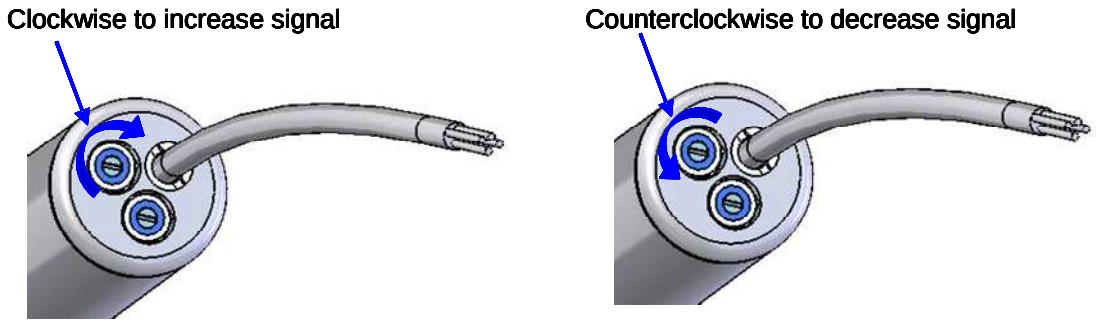


Figure 2

## 2. Enviro-T Functional Check

Prior to installing the Enviro-T in the Tee, make sure to supply power to the Enviro-T to check that the LED is functional.

To check if the LED is on after supplying power to the instrument, hold a white sheet of paper in front of the optical head. You should see light on the sheet of paper indicating the LED is functioning properly.

## 3. Enviro-T Tee Installation

**When installing the Enviro-T onto the Tee, always use a 1-9/16" Wrench to tighten and loosen the Enviro-T to the mounting tee. Tightening and loosening by hand can cause damage to the Enviro-T.**

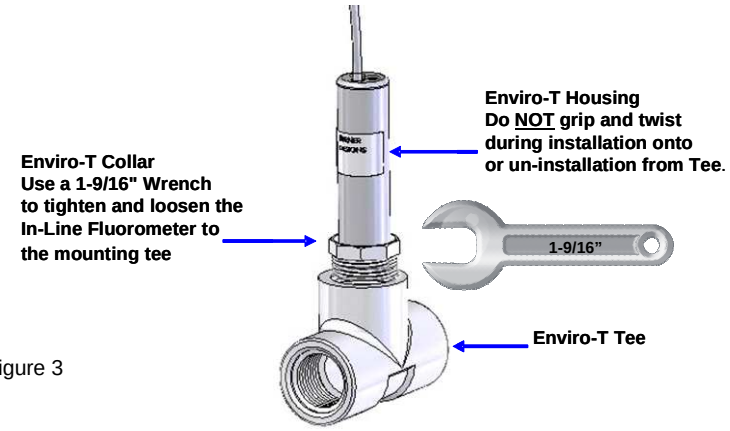


Figure 3

## 4. Adjusting the Enviro-T

Prior to adjusting the Enviro-T's Trim pots, the Enviro-T should:

1) Be installed in the Tee (See Section 3)
2) Have blank solution flowing past the sensor head
3) Have power supplied
4) Be connected to a multimeter that is set to read current (mA) output. See Figure 4 below.

***NOTE: Be sure the multimeter's leads are plugged into the jacks used to measure current. The jacks used to measure current are usually different from the jacks used to measure voltage.***

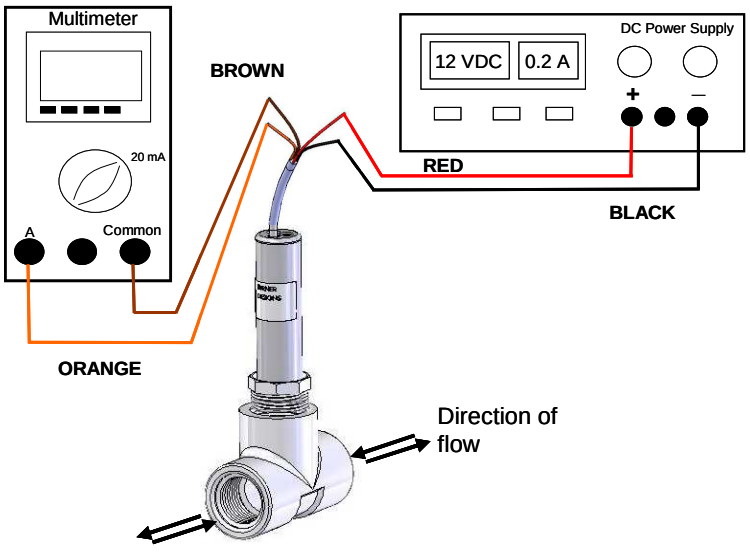


Figure 4

The first Trim pot that should be adjusted is the 4 mA Trim pot. It should be adjusted so the signal from a blank solution flowing past the sensor head is set to 4.1 mA (± 0.1 mA). See Figure 5 below.

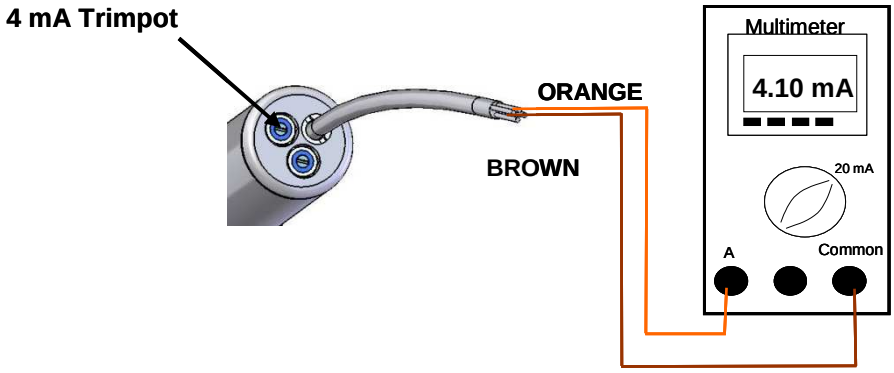


Figure 5

The second Trim pot that should be adjusted is the 20 mA Trim pot, which is used to set the upper limit of the Enviro-T using a standard with known concentration. With the standard solution flowing past the sensor head, adjust this Trim pot to 11.5 mA (± 0.1 mA). See Figure 6 below.

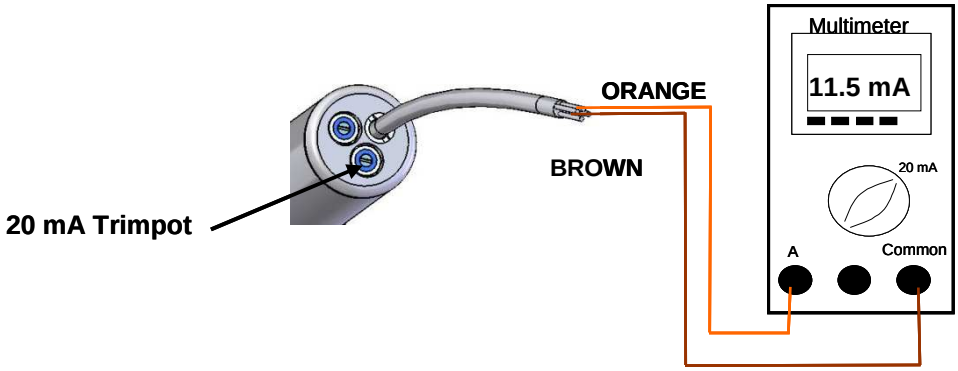


Figure 6

Once the Trim pots have been adjusted, the Enviro-T fluorometer is ready for use and the measuring range would be defined as zero to the concentration of the standard used for setting the 20 mA signal.

## 5. Resetting the Enviro-T

In situations where the Enviro-T's signal does not change during an adjustment, you may want to do a quick reset of the Enviro-T's Trim pots.

***NOTE: This will erase any adjustment already set and you will have to readjust using your blank and standard solutions.***

To reset the Enviro-T's Trim pots:

1) Turn the 20 mA Trim pot counterclockwise a total of 25 times or until you hear a click with each full turn.
2) Turn the 4 mA Trim pot counterclockwise a total of 25 times or until you hear a click with each full turn.
3) Follow the steps for adjusting the Enviro-T in Section 4.

***NOTE: It may take several clockwise turns to get the blank signal to reach 4 mA, but it should take no more than 25 full turns.***