



WATER & SOIL

HydroSense Meter Using with a Needle sensor Instructions for setting Zero Offset

These instructions show how to reset the zero offset of the HydroSense meter & Needle Sensor system. This can be done before taking each set of measurements if required.

In order for the meter to automatically measure the system offset and subtract from each reading, the procedure must be done with the Needle Sensor connected. The Zero Offset calibration factor of the sensor should be entered into the meter as a zero value (the default setting is the actually electrical offset of the pressure sensor), otherwise this value will also be included again in the meter's calculation, i.e. included twice.

1. To set the Needle Sensor zero offset calibration factor to a zero value:

(If you have several Factors set up for use with different length septum tensiometers, you will need to follow this procedure for each Factor Number)

Using the HydroSense meter's keyboard:

Press 6 - Set Parameters, press 3 - Edit Factors.

Enter the Factor number (No) for the Needle sensor (probably 00 if it is the only electronic sensor used with this meter).

Press NEXT to pass to the next entry each time.

Leave the Length of the tensiometer as currently set.

Leave the FS Full Scale value as currently set.

Change the OS figure to zero.

Press ENTER to make these factors the 'current' ones - which means that these factors will now be used to display / record values from the sensor currently plugged into the meter.

To check your entry, press 6 - Set Parameters and press 1 - Browse Factors. Press NEXT to scroll through the entries you have made.

2. To zero the HydroSense & Needle Sensor system.

This procedure may be done before every measurement sequence if wished.

Connect the Needle Sensor to the meter and switch on.

Press 0 System Chk/Cal (system check / calibration)

Press 3 Diffnl Amp O/S (differential amplifier offset)

Press Enter (having the Needle Sensor connected will join the + & - inputs as required) and Enter to continue. (If the Needle sensor is not connected the display will show that an invalid measurement has been made and ask you to repeat.)

Press Enter to store the value shown. Escape returns to the Main Menu.

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