



tehama wireless AN-127 Non Bluetooth Display Instructions

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AN-127: Non-Bluetooth Display Programming Instructions



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Installation Instructions

Once configured the display is activated with a push of the button. The Display MDT (D-MDT) will display the value on the meter face including the fixed 0 digits if the meter is 10 or 100 units per pulse resolution. If the D-MDT is a dual input unit for co-located hot and cold metering, the display will toggle between the hot and cold values every five seconds. Pushing the button while the display is on will also toggle between the hot and cold displays.

Configuration

Configuration of the unit is done two ways. One way is to use the Tehama CIT software and a USB cable available from Tehama, part number TWA09. Plug the male connector into the D-MDT and the USB side into your laptop or tablet as shown here.

If you are using site with a DCAP, Connect to your site first using the CIT software, then select the D-MDT menu item from the menu bar, then Configure. The following screen appears:

The screenshot shows the 'Display MDT Connect and Configure' window. At the top, there are two buttons: 'Connect and Commission' (highlighted with a blue box) and 'Connect Only'. Below these is a checkbox 'Load Fields when Connecting' which is checked. There are input fields for 'Radio ID' and 'Configuration Update Count'. The main area is divided into two panels: 'Meter #1 Configuration' and 'Meter #2 Configuration'. Each panel contains the following settings: 'Sensor Type' is 'Unknown_Sensor_Type'; 'Initial Meter Reading (BPS)' is 0; 'Units' are set to 'None' (radio buttons for 'Cubic Feet (CF)', 'Gallons', and 'None'); 'Type' is set to 'Other' (radio buttons for 'Hot', 'Cold', and 'Other'); 'Count Factor' is set to 'Custom' with a value of 1.0000 (radio buttons for 'x1', 'x5', 'x10', 'x50', 'x100', and 'Custom'). At the bottom, there are buttons for 'Load these Fields from MDT', 'Save these Fields to MDT', and 'Show Configuration Data Confirmation Panel'.

Click the Connect and Commission button for the CIT to initiate the communication with the D-MDT and to Commission it to your site. Click Connect Only will only connect to the MDT and will not commission it to your site. If you are using a Non Radio TW-105 this will be the button to press. It can take a few seconds to complete, and a pop-up window will indicate success.

If the Load these fields when Connecting box is checked then this will load what is currently configured on the display MDT. We recommend unchecking this box if you are configuring new displays that have never been configured. This keeps your new settings the same every time you connect so you quickly update multiple units.

Sensor Type will be either Pulse Totalizer or Encoder. If the unit is a dual display D-MDT, two side by side panels will appear with separately configurable panels for each meter.

You can configure the following four parameters:

- Initial Meter Reading (IMR). For Pulse Totalizer inputs you can set the IMR. This value should be the full value shown on the meter face, in Gallons or Cubic Feet. Encoder meters do not need an IMR as the D-MDT reads the meter face directly. You will not see an IMR field for Encoder D-MDTs.
- Units can be set to Gallons or Cubic Feet
- Type can be set to Hot, Cold, or none (blank)
- Count Factor (CF) can be set to these values: 1, 5, 10, 50, or 100.

When correctly setup, the D-MDT Display will match the meter face. For example, if the count factor is set to 100, the display will add two fixed zeros to the D-MDT display such that the display units match the meter units.

The IMR value you enter should be exactly what the meter shows, including any fixed zeros. In other words, enter the full reading in Gallons or Cubic Feet. If the meter is 10 gallons per pulse but the meter shows 1 gallon resolution on the wheels, enter all the digits. The CIT will automatically truncate the value based on the Count Factor setting you select.



When all settings are entered, press the Save these fields to the MDT button. The CIT will send the settings to the D-MDT and will zero the count for Pulse inputs. Note that D-MDT units will NOT zero their count if the button is held for 10 seconds, unlike our regular MDT units. This is required for NTEP regulatory compliance.

The information saved in this step will be transmitted to the DCAP shortly after you hit the Save... button.

All four parameters (IMR, Units, Type and CF) will show up in the Configuration Data : Sensor View : General Configuration tab in the CIT. This will inform how the CIT and the Daily report display the data.

Alerts							
Sensor (Read Only)	Count Factor	Units	Meter Type	Meter Style	Meter Note	Meter Serial Number	Initial Meter Reading
1	10	Gallons	Water	Hot			319000

Please note the following:

- While you are still able to update these fields in the CIT with data, the D-MDT continuously sends the information you have set every 24 hours and will overwrite anything you enter in the CIT. So it is very important the settings you program into the Display MDT are correct as they cannot be changed later in the CIT. Again is due to NTEP regulatory compliance.
- In California, some inspectors may need to certify the D-MDT installation and seal the D-MDT with stickers covering the communication port.
- To see the values, you must re-download data from the CIT using the  icon, or using the menu selection CIT | Load Image from | DCAP | Configuration Data. Using just the  button to update the CIT will not get this configuration data.



The D-MDT display, as well as the value shown in the CIT and in daily reports, will use this formula:
 $\text{Initial Meter Reading} + (\text{Count Factor} * \text{MDT Count})$

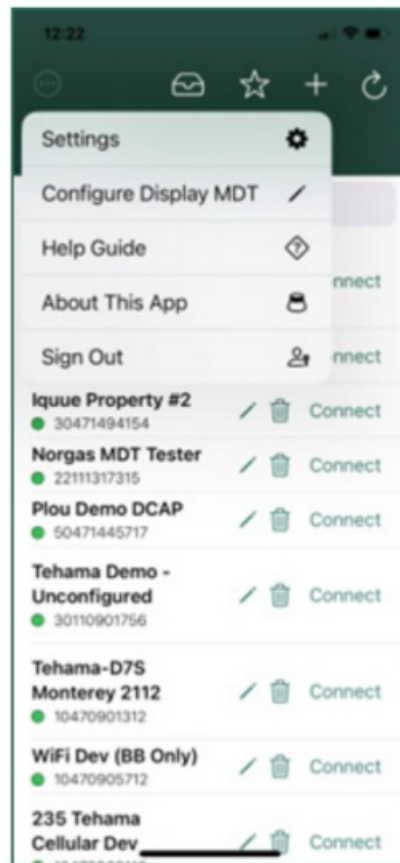
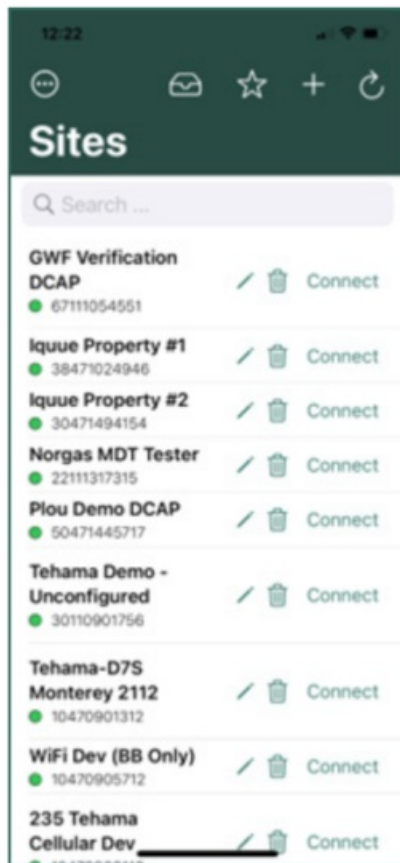
For Encoder D-MDTs:

- The Meter Serial Number is also transmitted to the DCAP and will appear in the Sensor View tab. This is true for all our Encoder MDTs, not just the Display MDTs.
- The display will show a string of dashes if the D-MDT is unable to read the meter. In this case the wiring should be checked. An example of this is shown in the photo on page 1.

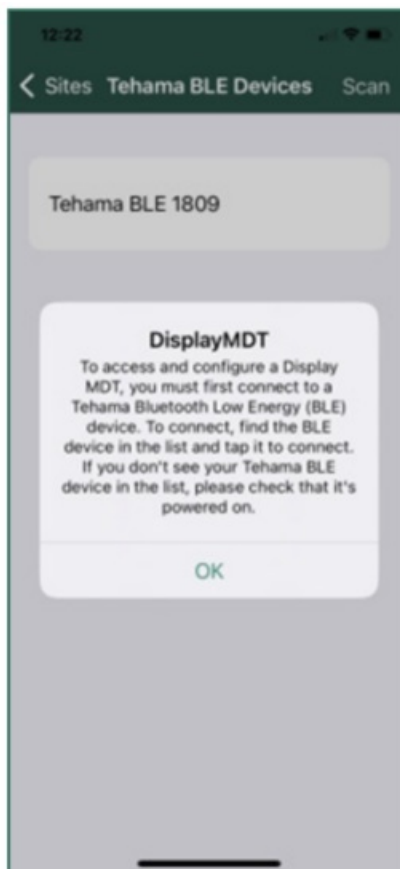
Second way is to use Tehama's Bluetooth Display Programmer which gives field technicians the ability to program a Display MDT from Tehama Connect Mobile App (Android and iOS), avoiding the need to lug around a laptop. The Programmer runs on two AA batteries and is easy to use. Simply power on the Bluetooth Programmer, pair it to your smart phone from within the App, then plug the cable into the Display MDT. Once connected you will be able to change the following parameters on a Display MDT:

- Initial Meter Read (IMR)
- Units of Measure
- Meter Type (Hot/Cold/Blank)
- Count Factor

To pair your Display MDT to your Bluetooth programmer, click on the Circle with the three Ellipsis. Then press Configure Display MDT.



From there press OK and select the Tehama BLE number, in this case Tehama BLE 1809.
Your BLE number will be different as each has its own unique number. Then Tap to connect to the D-MDT.



You will be brought to your Display Configuration dashboard for your Display MDT. From here you can make changes to your Initial Meter Read, Units of Measure, Meter Type, and Count Factor.

12:25

< DMDT Config Connect Save

updating...
Sensor 1 configuration successfully updated.
Fetching Tamper Count...
D-MDT successfully updated!

Radio ID 81B090E7
Update Count 50

Sensor 1

Pulse_Totalizer_1

Initial Meter Read
107200

Units
☒ Gallons ☐ Cubic Feet ☐ None

Type
☐ Hot ☒ Cold ☐ Other

Count Factor
100

Once changes are made hit the Save button and you will see your Display MDT display settings have changed.



Documents / Resources

	<p>tehama wireless AN-127 Non Bluetooth Display [pdf] Instructions</p> <p>AN-127, AN-127 Non Bluetooth Display, Non Bluetooth Display, Bluetooth Display, Display</p>
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References

- [User Manual](#)

[Manuals+.](#) [Privacy Policy](#)

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