

RD7CTS-DD Remote Display

Delivery Defender Programming & Operation



DELIVERY DEFENDER PROGRAMMING & OPERATION

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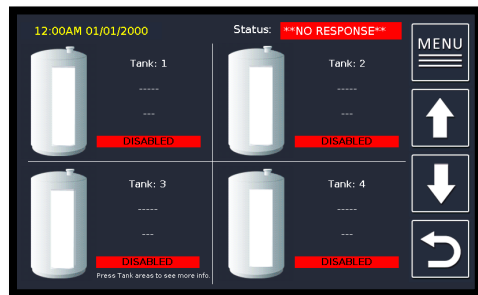
Please note:

All manuals referenced in this document can be found shipped with your OMNTEC system or obtained from our website or our technical support via email.

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POWERING ON



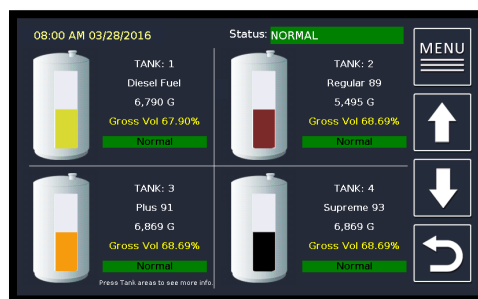
^ Powered on; ATG not found (NO RESPONSE)

Figure 1.0

For installation instructions, refer to document *D100077* (RD7CTS-DD RS-232 Wiring Diagram) or *D100028-4* (RD7CTS-DD RS-485 Wiring Diagram) for the correct communication option.

When the **RD7CTS-DD** is powered on and not connected to an ATG (NO RESPONSE), the display will show the screen to the left.

(See Figure 1.0)



^ Powered on; ATG found

Figure 2.0

After connected to an ATG, the **RD7CTS-DD** will update its information to show the correct time and date as well as inventory data. It will basically mimic the ATG controller it is connected to.

(See Figure 2.0)

NAVIGATING TO SETUP

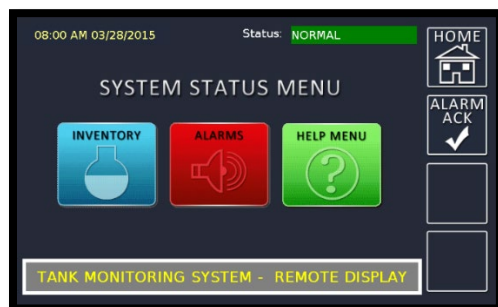


Figure 3.0

From the System Status Menu, press **HELP MENU**.

(See Figure 3.0)

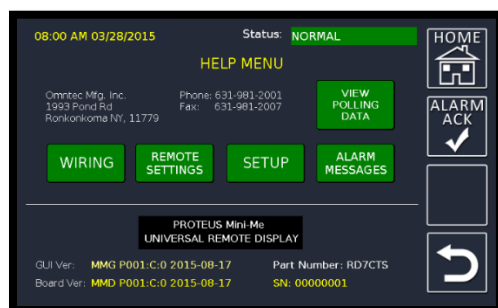


Figure 4.0

In **HELP MENU**, press **SETUP**.

(See Figure 4.0)

The default password is **000000** (six zeros).

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CHANGING PARAMETERS



Figure 5.0

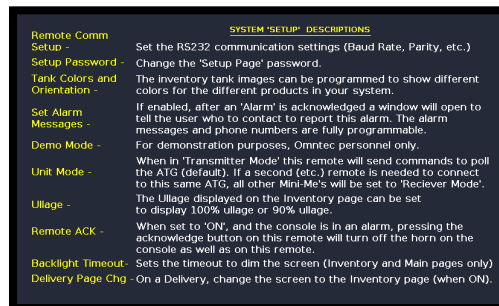



Figure 6.0

SETUP MENU

(See Figure 5.0)

Pressing on each grey button will bring up a QWERTY or numeric keypad for data entry, or you can toggle between available options. The three most common parameter changes are described in the sections below (Changing Baud Rate, Changing Tank Colors & Orientation, and Unit Mode).

Note the  icon in the right margin of the **SETUP MENU**; this is the Information Button. Pressing on this will bring up the **SYSTEM "SETUP" DESCRIPTIONS** page which defines certain system terminologies and is helpful in changing parameters as detailed in the screen shot to the left.

(See Figure 6.0)

CHANGING BAUD RATE

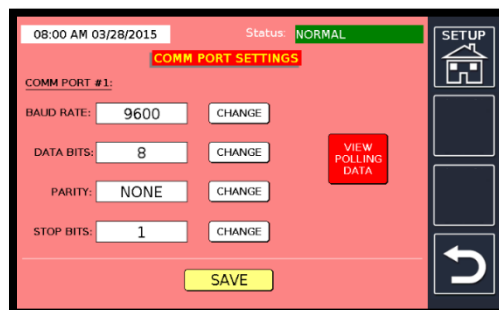


Figure 7.0

To change the baud rate, select **REMOTE COMMUNICATIONS SETTINGS** from the **SETUP MENU**. The baud rate and other options will cycle through preset values each time you press **CHANGE**. Match these to the main ATG.

(See Figure 7.0)

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CHANGING TANK COLORS & ORIENTATION

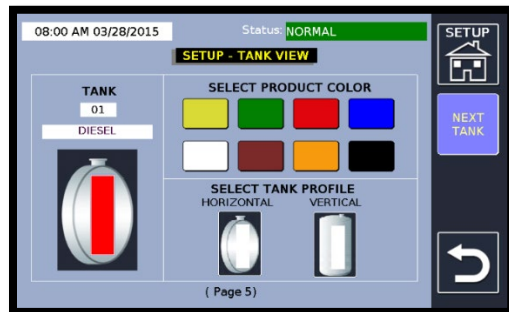


Figure 8.0

Select **TANK COLORS & ORIENTATION** to choose different colors for each tank. The user may also choose to view the tank profile as horizontal or vertical. Please note, this is merely for display purposes and has no physical effect on the tank or its product.

(See Figure 8.0)

UNIT MODE

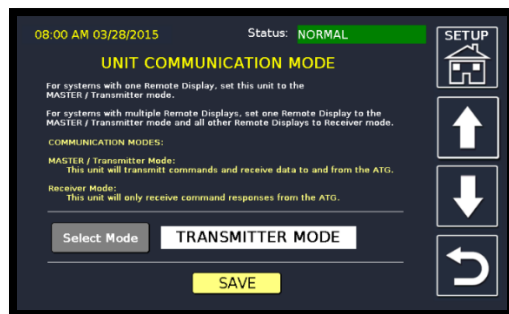


Figure 9.0

UNIT MODE is configured as either **TRANSMITTER** or **RECEIVER MODE** based on which communication method is being used.

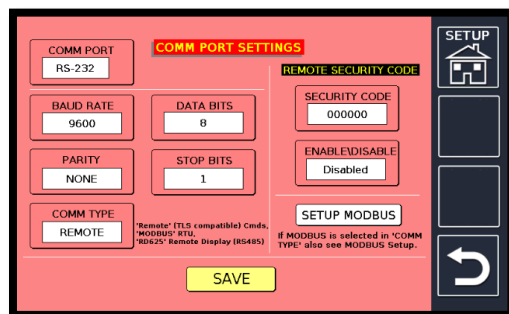
Unit Mode can be changed by pressing the **UNIT MODE** button on the **SETUP MENU** (see Figure 5.0).

Press on the **SELECT MODE** button to toggle between **TRANSMITTER** and **RECEIVER MODE**.

(See Figure 9.0)

****Important: Always press SAVE when finished.****

RS-232 COMMUNICATIONS



^ Screen shot on the Proteus ATG controller

Figure 10.0

For RS-232 Communications, the Proteus Controller **COMM TYPE** must be set in **REMOTE MODE**.

(See Figure 10.0; screen shot is from the Proteus)

Refer to the Proteus Programming Manual (*DP00014 15 18 20 26 rev2045*) for verifying these settings.

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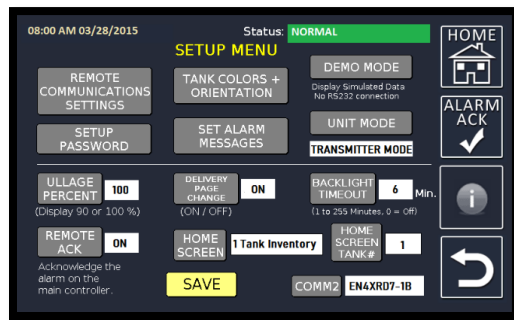


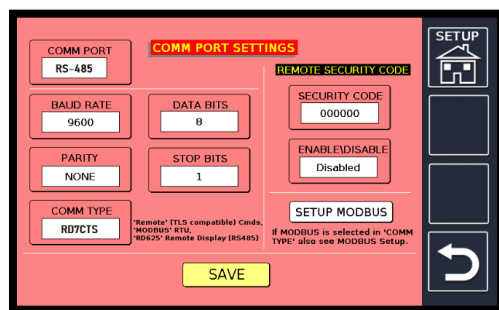
Figure 11.0

The Mini-Me Delivery Defender **UNIT MODE** must be set in **TRANSMITTER MODE**.

For the Delivery Defender remote box to function correctly, **COMM2** must be set for **EN4XRD7-1B**.

(See Figure 11.0)

RS-485 COMMUNICATIONS



^ Screen shot on the Proteus ATG controller

Figure 12.0

For RS-485 Communications, the Proteus controller's **COMM TYPE** must be set in **RD7CTS** mode.

(See Figure 12.0; screen shot is from the Proteus)

Refer to the Proteus Programming Manual (*DP00014 15 18 20 26 rev2045*) for verifying these settings.

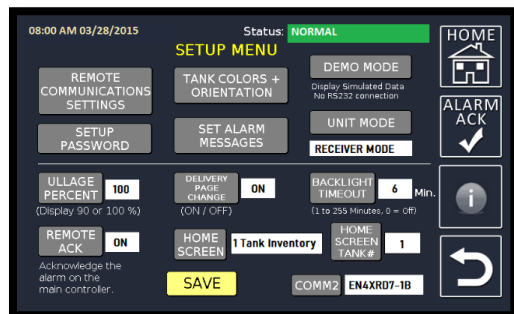


Figure 13.0

The Mini-Me Delivery Defender **UNIT MODE** must be set in **RECEIVER MODE**.

For the Delivery Defender remote box to function correctly, **COMM2** must be set for **EN4XRD7-1B**.

(See Figure 13.0)

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OPERATION



Figure 14.0

In a non-delivery normal mode condition, the UV screen would be opaque, and the Delivery Defender screen would not be visible. On the remote box, the **SYSTEM NORMAL** light would be illuminated.

(See Figure 14.0)

When a delivery is being made, the UV screen will become translucent, the Delivery Defender will wake up, and switch the display to the tank that is receiving product.

Should the tank (getting the delivery) reach the overfill alarm point, the audible horn will sound, and the strobe light will start flashing. Pressing the **ACK/TEST/FUNCTION** button on the remote box will silence the horn.

When a delivery is not being made and the system is in a normal condition, the strobe light and horn can be tested by pressing and holding down the **ACK/TEST/FUNCTION** button.

When a delivery is not being made and the system is in a normal condition, tank inventory and alarms can be checked by pressing the **ACK/TEST/FUNCTION** button; the UV screen will become translucent. The tank inventory will display for the first available tank. By pressing the **ACK/TEST/FUNCTION** button momentarily, the display will toggle to the next available tank. After the last tank is displayed, the current alarms screen will appear.

When the delivery has ended and the dwell time is reached, or you finish checking the tank inventory, the unit will return to the sleep mode and the UV screen will become opaque.