

TS-DIMIB Diagnostics

General Information

The T5 Series console* with an internal TS-DIMIB Dispenser Interface Module has built in diagnostic software which enables an installer to verify communication with the dispenser/POS system.. This is a menu-based command line utility which is available through the serial port of the Power Supply Module. *Control Module Firmware version 0.9.5.3685 or greater is required* and Power Supply Firmware version 1.0.1 or greater is required.

Prior to using diagnostic mode

Note: If the console is not communicating with the Distribution Box (Dbox), verify that the modules are at the most current rev. level. If needed, upgrade the system to current revs, turn off power to the T5 series console, wait 5 minutes and turn power back on.

Note: If the mapping query is not working, set all hose positions in set-up to 0 and save configuration. Check status of the DIM module and wait until the console shows the DIM is operational. Return to setup and query dispenser.

In order to use this diagnostic, the console will need to be placed into an offline mode which essentially turns the power supply into a dedicated module for DIM diagnostic use only. During this time, the T5 console will not be performing normal operational functions.

To return the console to its normal operation mode, it will need to be power-cycled. This will allow the Power Supply to return to its normal state. Note a Power Supply Module Mismatch alarm will occur and should be ignored.

Procedure

Step 1

Using the LCD panel, select the main menu: FMS (Figure 1).

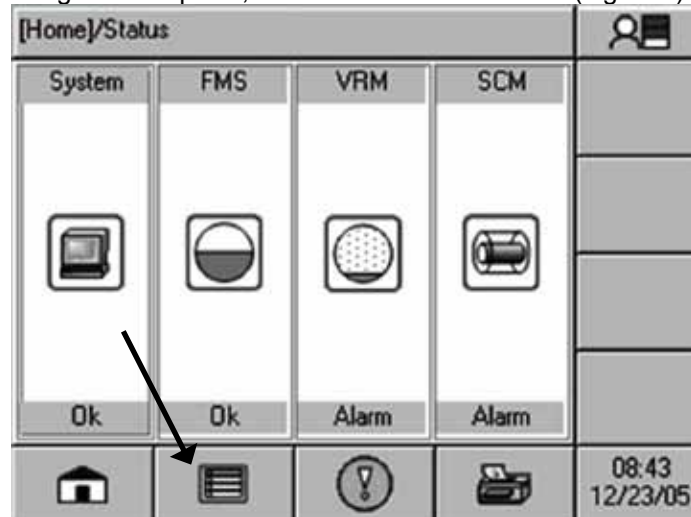


Figure 1: LCD Home Screen

*T5 Consoles include TS-5, TS-550, TS-5000 and TS-EMS

This will take you to the Menu page. Press the DOWN button (Figure 2).

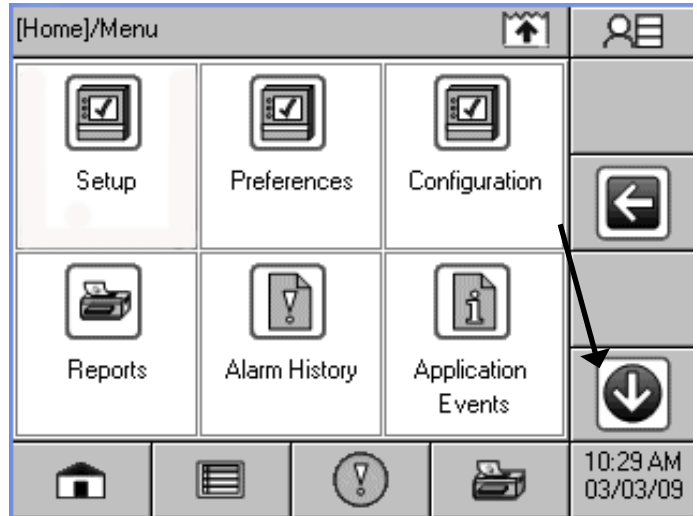


Figure 2: Main Menu

This will show the diagnostics screen (Figure 3).

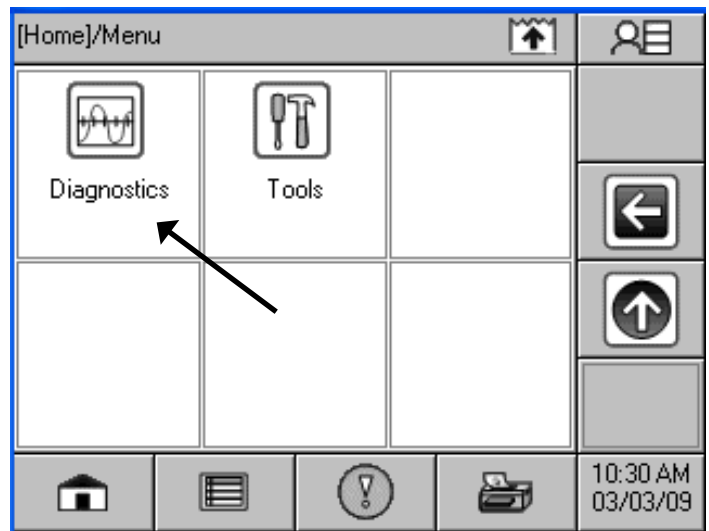


Figure 3: Diagnostics Button

Select the DIM Diagnostic in the Diagnostics section of the Main Menu (Figure 4).

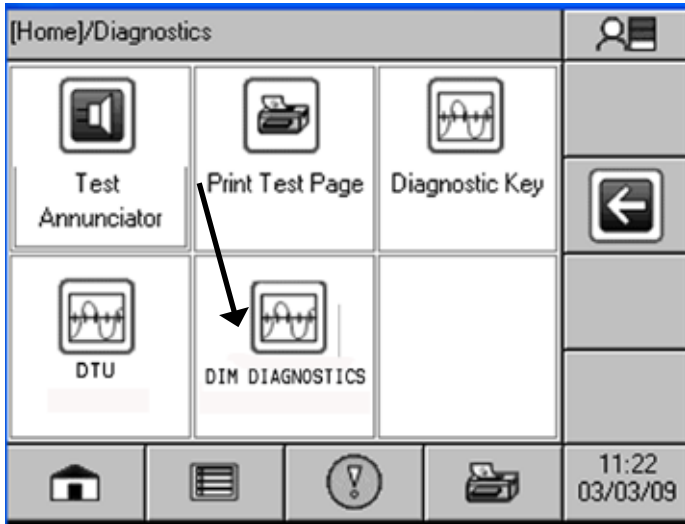


Figure 4: Diagnostics Screen

Once selected you will be prompted to confirm your selection (Figure 5).

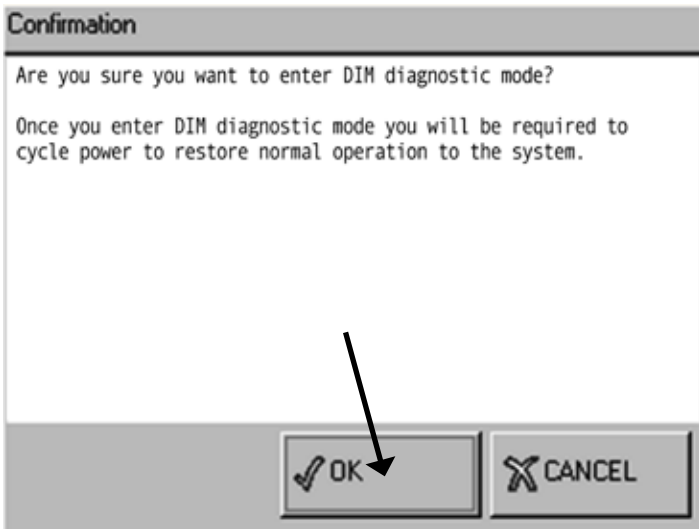


Figure 5: Confirmation Screen

Select OK and you will be prompted to enter the Administrator password. Enter the password and select the check box Figure 6).

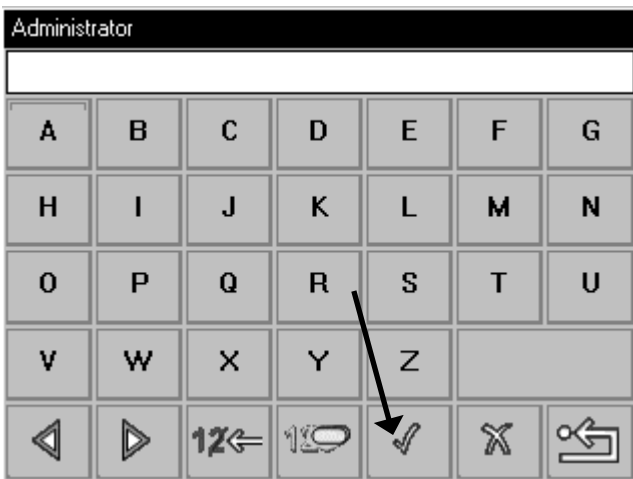


Figure 6: Password Screen

The system will now enter DIM Diagnostic Mode (Figure 7).

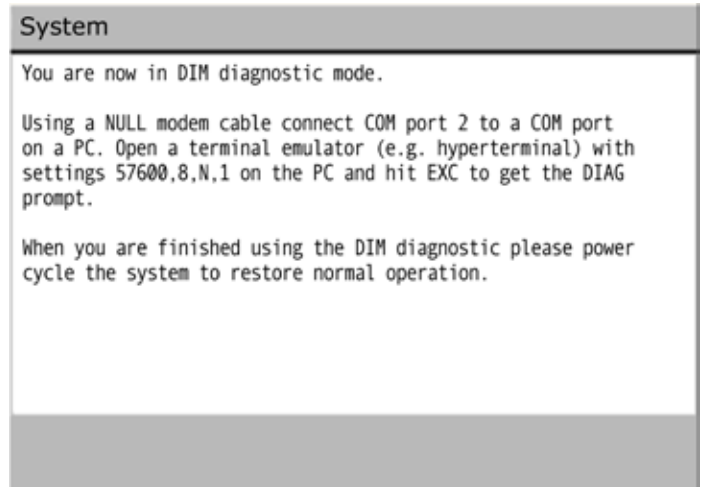


Figure 7: Diagnostic Mode

Step 2

Connect to the console via an Ethernet connection, and reboot the system (soft boot) by choosing tools\reboot system.

Using a NULL modem cable connect PC COM Port 2 of the T5 series console to a COM port on a PC.

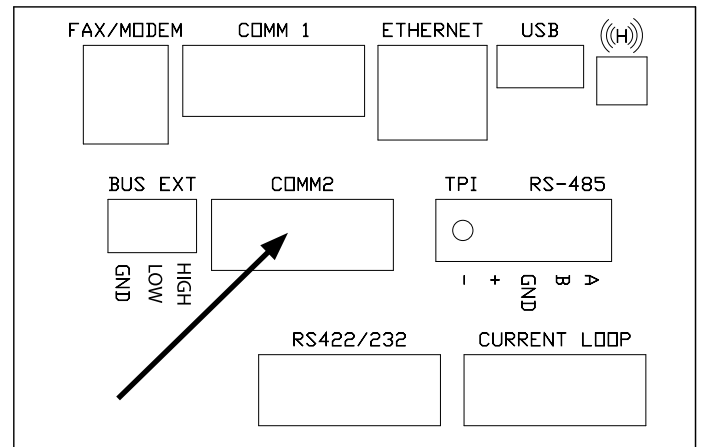


Figure 8: T5 Console COM Port 2 Location

Open a terminal emulator program (e.g. Hyper Terminal) with protocol setting of 57600 Baud, 8 Data Bits, No Parity, and 1 Stop Bit (Figure 9-11).

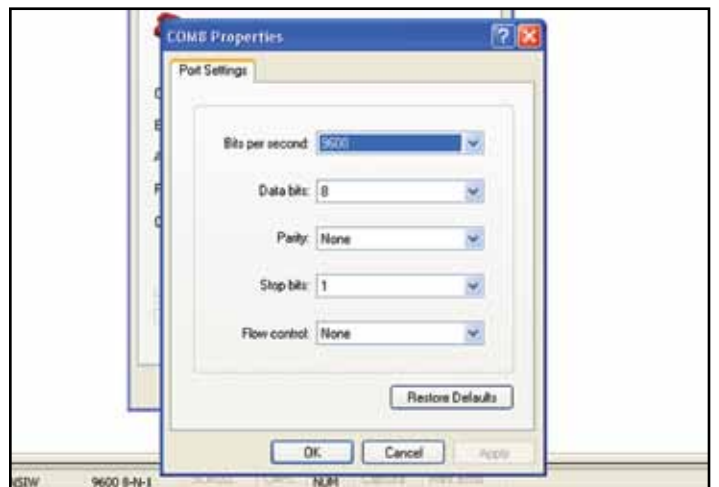


Figure 9: Terminal Program Open

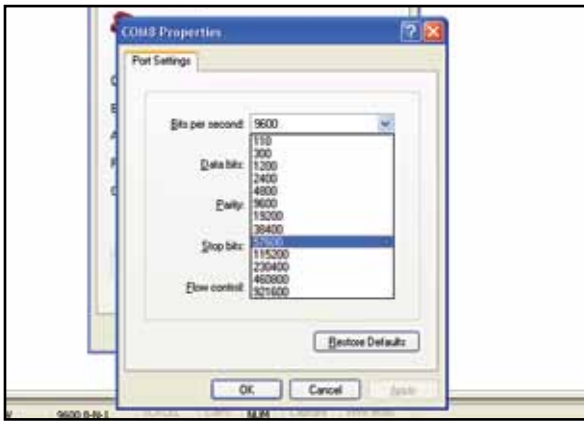


Figure 10: Setting Baud Rate

Once connected hit the Esc key to access the “DIAG>” prompt.

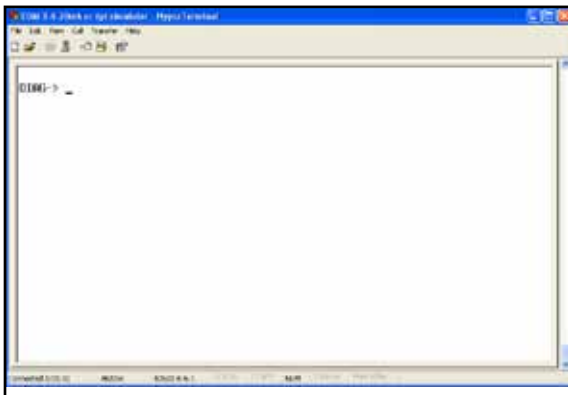


Figure 11: DIAG> Screen

Step 3

Accessing the Pump Totals

The display Pump Block section of the diagnostics will show the transaction totals for each fueling position.

1. At the **DIAG->** prompt, enter **D** for the diagnostic section.
2. Next, at the **Select Section:** prompt, enter **A** for the database section.
3. At the **DBASE->** prompt, enter **D** for the display pump block option.
4. Finally, at the **Select:** prompt, enter **0** for the total volume option (Figure 12).

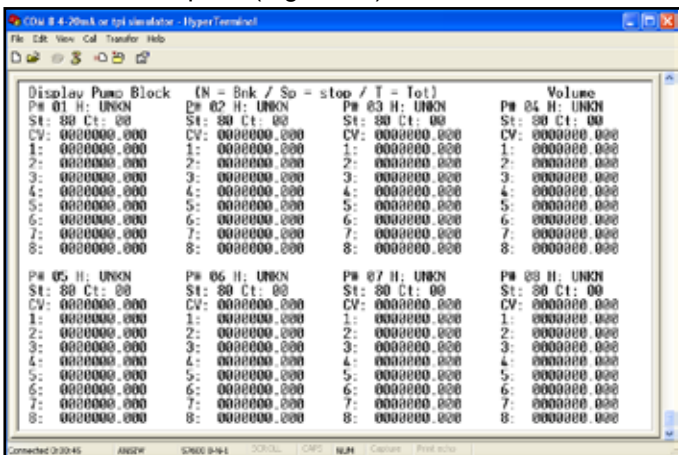


Figure 12: Display Pump Block Screen

Clearing the Database Using Privileged Mode

Normally, at startup, the totals for all pumps are zero, but, in some situations, the fueling positions may contain data that needs to be cleared in order to start the meter mapping process. The Privileged Diagnostic mode will have to be entered in order to access the Clear Database function.

Entering Privileged Mode

At the **DIAG->** prompt, select **S**. An Access Code will be displayed and a Security Code will be requested. To calculate the security code subtract the access code from 100 and then reverse the digits. See the following example.

Example: If the **Access Code = 25** and $100-25 = 75$, then reverse the 75 to 57. The **Security Code = 57**.

Note: For an access code that results in a single digit (i.e. 98: $100-98=2$), assume a 0 before the digit to get the security code (i.e. $2 \rightarrow 02 \rightarrow 20$).

Clearing the Database

These steps will clear the totals from the database and reset all of the fueling positions to zero. This process can be repeated at any time during the meter mapping process to get back to a clean database.

1. Follow the above instructions to enter the privileged mode.
2. At the **DIAG(P)>** prompt, select **D** for diagnostic section.
3. Next, at the **Select Section:** prompt, enter **A** to select the database.
4. At the **DBASE->** prompt, enter **C** to clear the database.
5. The TS-DIM will ask the following two questions:
 - a. “Are you sure you want to clear the database?” Answer **Yes** to clear the database.
 - b. “Database Cleared — do you want to store in NVRam?” Answer **No**.

Using the DIM Diagnostic

Once connected to the DIM Diagnostic you will see all available positions for Fueling Points 1 through 8.

Enter N to cycle through the remaining Fueling Points.

To verify communications between the TS-DIMIB and the dispenser/POS system dispense a small amount of fuel at one or more fueling points. The volume dispensed should appear on the corresponding Fueling Point in one of the positions. If the volume dispensed does not appear in one of the eight positions for that fueling point then there is a communication problem. Verify all cabling, connections, and setup to ensure proper installation.

Step 4

Once you have finished using the DIM Diagnostic, **power cycle the T5 series console** to restore normal operation.

INCON[®]



Franklin Fueling Systems

3760 Marsh Road
Madison, WI 53718, U.S.A.
Tel: +1 608 838 8786 • Fax: +1 608 838 6433
Tel: USA & Canada 1 800 225 9787
Tel: México 001 800 738 7610
www.franklinfueling.com