



INSTALLATION and QUICK HELP  
FOR TLS CONSOLE INTERFACE TO THE  
VEEDER-ROOT EMR4 DATALINK  
USING AN XTEND 900 MHZ WIRELESS MODEM  
577014-353 Rev. A



## INTRODUCTION

This Installation and Quick Help Guide contains the necessary information to connect a wireless modem to a TLS-300, TLS-350, TLS4, or TLS-450PLUS console and obtain the tank information in the DataLink program on a PC.

## DESCRIPTION:

Kit Number	Description	General Contents and Comments
0845900-037	TLS-3XX Consoles Interface Kit - XTend 900 MHZ	This TLS kit includes: <ul style="list-style-type: none"><li>• Wireless modem with standard antenna</li><li>• Special 9-pin connector for modem</li><li>• Special 25-pin connector for console</li><li>• 25-foot Ribbon cable for console to modem connection</li><li>• Power supply for modem</li><li>• This manual</li></ul>
0845900-040	TLS-4XX Consoles Interface Kit - XTend 900 MHZ	This TLS kit includes: <ul style="list-style-type: none"><li>• Wireless modem with standard antenna</li><li>• 9-pin connectors for modem and console</li><li>• 25-foot ribbon cable for console to modem connection</li><li>• Power supply for modem</li><li>• This manual</li></ul>

## **INDIVIDUAL MODEM UNIQUE ADDRESS - IMPORTANT**

Each modem has a unique address assigned by Veeder-Root. This number is on the label on the modem itself, and on the box. This number is your traceability from the TLS console to the office software. The TLS connected modem number will be entered into the office software in the TLS modem location on the DataLink configuration page.

## TLS CONNECT KIT MODEM:



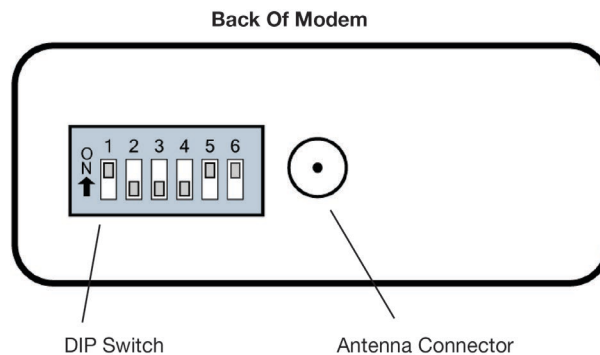


XTend 900 MHz, 1 Watt, Serial	Unique Address Assigned By Veeder-Root Example of Label on Side of Modem
 <p>Label on side of modem</p>	

## FOR XTEND 900 MHz SERIAL MODEMS

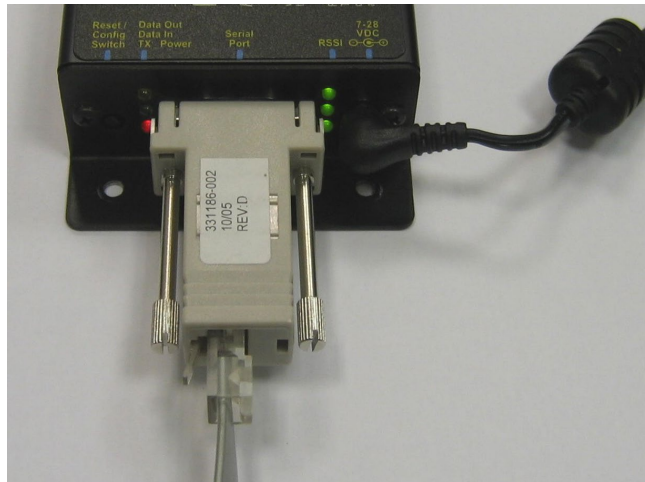
### TLS CONNECTED MODEM MOUNTING AND CONNECTION:

1. The DIP switches on the XTend modem should be set to: 1=ON 2=OFF 3=OFF 4=OFF 5=ON 6=ON





2. Screw the antenna into the modem and hand tighten.
3. Connect the serial connector to the modem and plug the cable into the connector.



4. Plug the power supply into a normal 110 volt outlet. The red light on the modem will be lit.
5. The modem can sit on or near the console. If the console will be located a long distance from the office modem, the modem should be placed as high as possible. A high-gain antenna (kit 0845900-033) may be needed for some applications.



## TLS CONSOLE CONNECTION AND SETUP

### For a TLS-300 console:

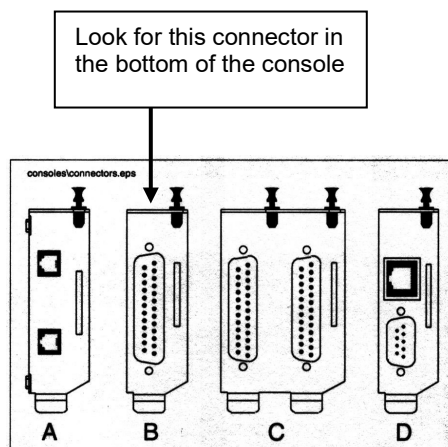
Use the Direct Connect location and connector shown:



### For a TLS-350 Console:

For Serial communications, the console needs to have the RS-232 Serial Interface Module (329362-001 in-console part or 847490-301 spare part) installed in the console.

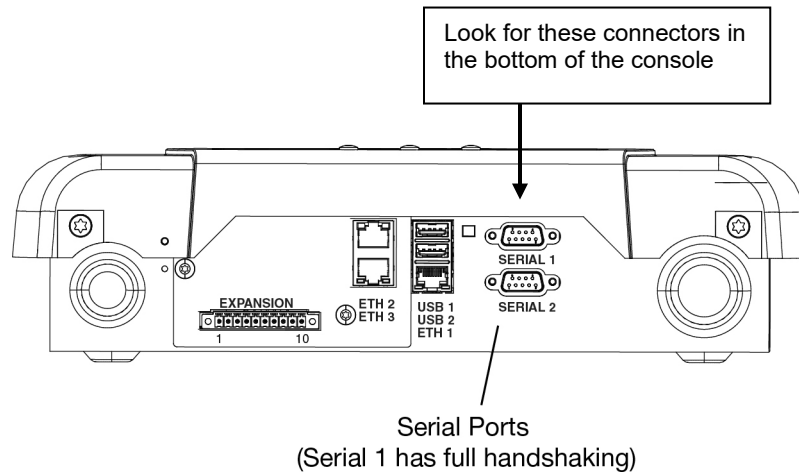
Look on the bottom of the console for the 25-pin serial connector shown.





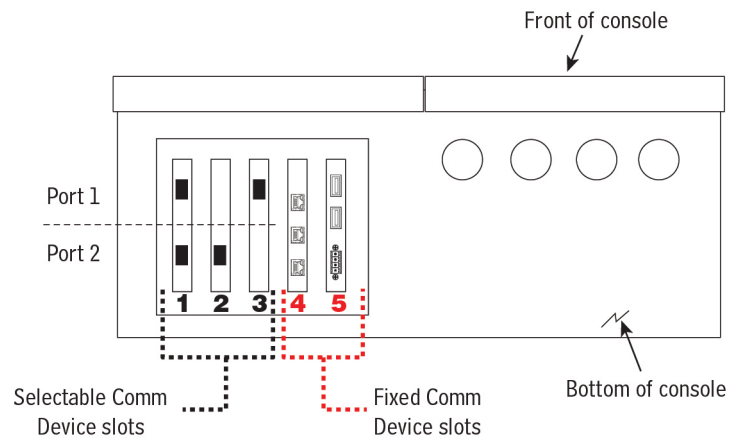
### For a TLS4 Console:

Look on the bottom of the console for the 9-pin serial connectors shown.



### For a TLS-450PLUS Console:

Look on the bottom of the console for an available 9-pin serial connector.





Use the chart below to verify the configuration of the desired TLS-450PLUS serial connector:

**Configurable (C) / Non-Configurable (NC) Ports For Comm Modules In Comm Slots 1-3 Only**

Comm Module	Comm Type	Slot 1		Slot 2		Slot 3	
		Port		Port		Port	
		1	2	1	2	1	2
→ RS-232 Single Port (also EDIM, Satellite S-SAT and Satellite H-JBox apps.)	Serial	NC	C	NC	C	NC	C
→ RS-232 Dual Port (also EDIM, Satellite S-SAT and Satellite H-JBox apps.)		C	C	C	C	NC	C
RS-485 Single Port		NC	C	NC	C	NC	C
RS-485 Dual Port		C	C	C	C	NC	C
→ RS-232/RS-485 Dual Port		C (RS232)	C (RS485)	C (RS232)	C (RS485)	NC	C (RS485)
SiteFax / Modem		NC	C	NC	C	NC	N
CDIM	DIM	C	NC	C	NC		
IFSF LON	DIM	C	NC	C	NC	C	NC

**NOTE: A RS-232 module is required for DataLink.**

## CONSOLE SET-UP

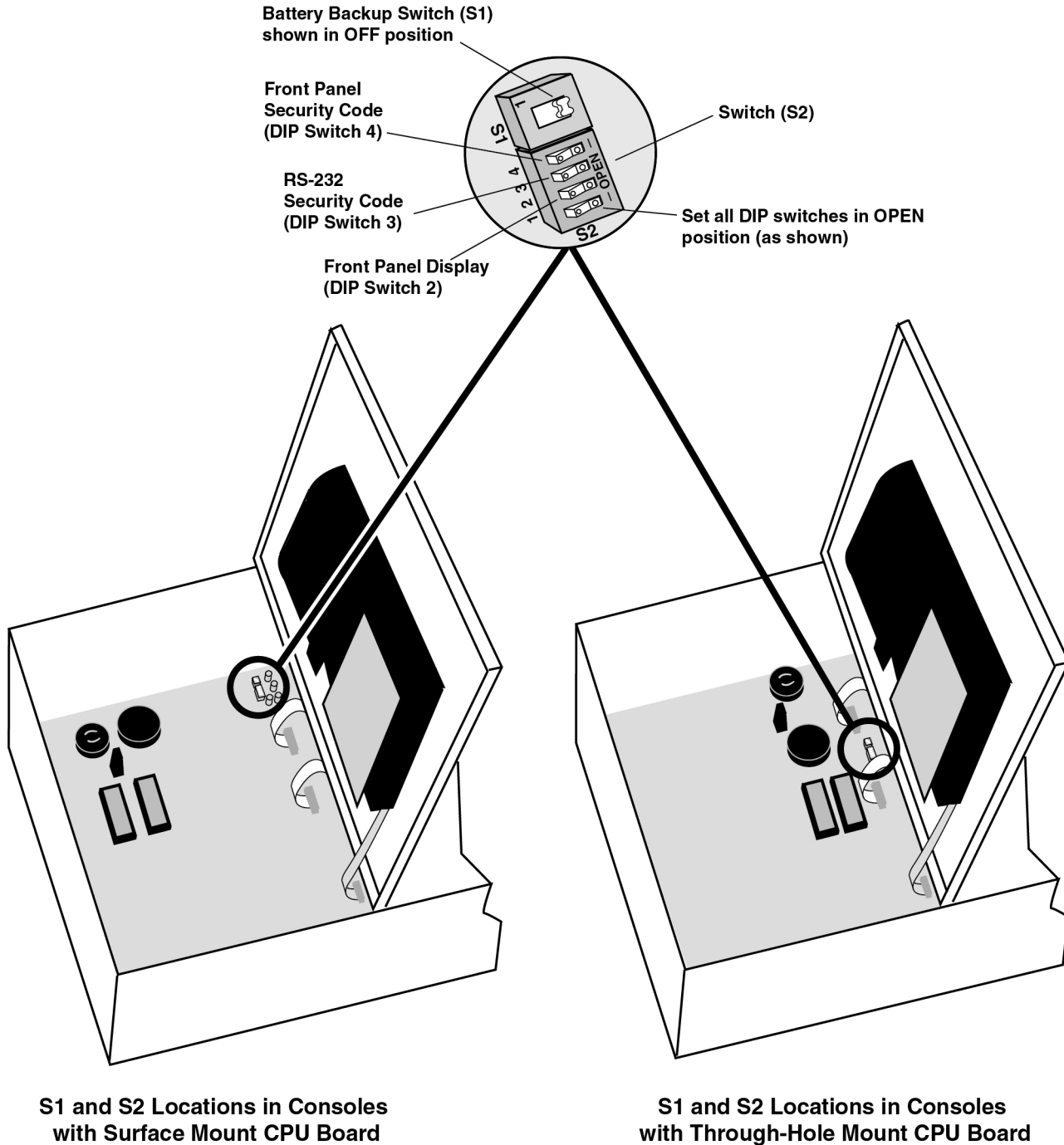
The unit will be set up by the installer for normal operation. The steps in this procedure are for setting up the console for communication using the DataLink serial modem.

### Security Code Enable/Disable

Security needs to be "Disable" for obtaining data via the DataLink modem. For TLS-3XX Consoles place all DIP switches in the OPEN position as shown below:

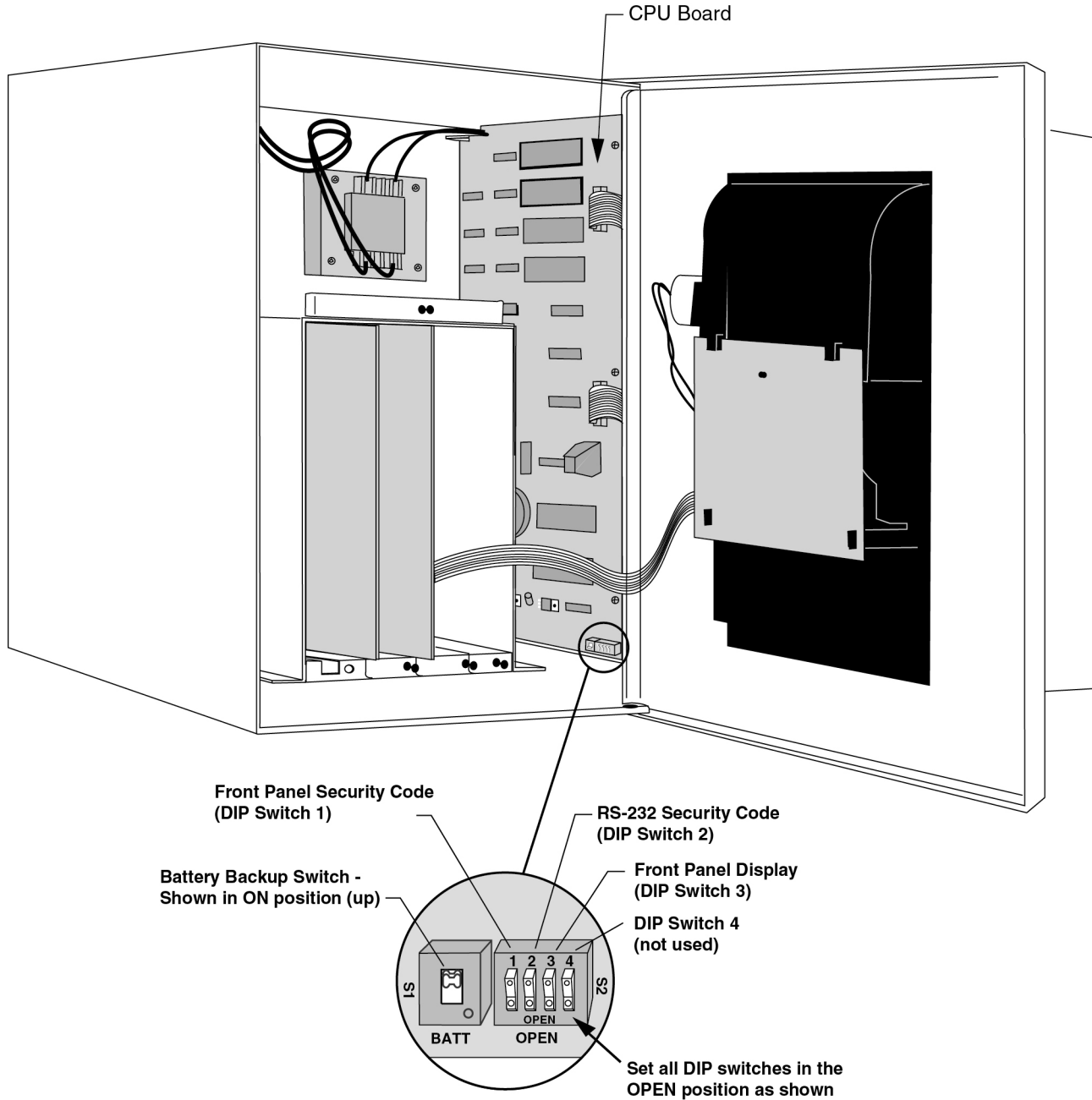


### TLS-300 Console





## TLS-350 Console With CPU Board

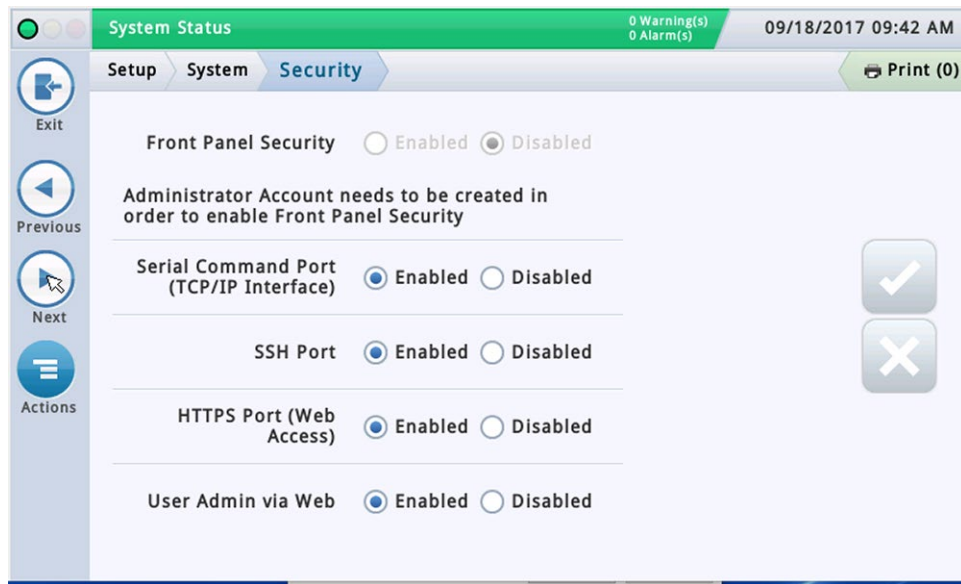






### TLS-4XX Consoles

From the Home Screen, navigate to Setup>System>Security and ensure Front Panel Security is Disabled:



### **Serial Communications Protocol Setup**

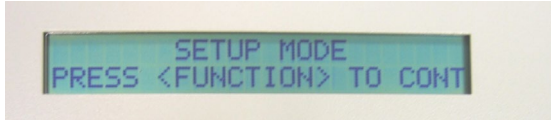
### TLS-3XX Consoles

On the console keypad with Date and Time and “All Functions Normal” showing:

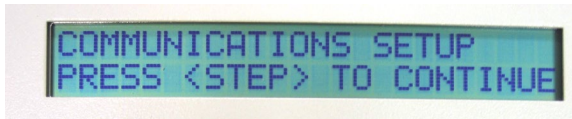




1. Push MODE button to SETUP MODE



2. Push FUNCTION Button to COMMUNICATIONS SETUP



3. Push STEP button to PORT SETTINGS

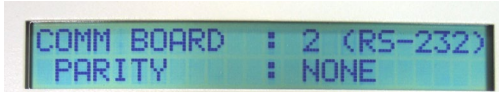


4. ENTER

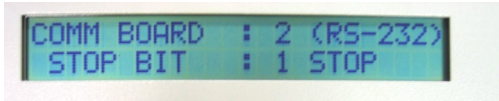
- COMM BOARD 2 (RS-232) (May be different Board Number but will be RS-232)
- BAUD RATE 9600
  - a. If not 9600, then push the CHANGE KEY until 9600 and ENTER



- STEP to PARITY
  - o If not NONE, then push the CHANGE KEY until NONE and ENTER



- STEP to STOP BIT
  - o If not 1 STOP, then push the CHANGE KEY until 1 STOP and ENTER



- STEP to DATA LENGTH
  - o If not 8 DATA, then push the CHANGE KEY until 8 DATA and ENTER





- STEP to CODE
  - If not DISABLED, then push the CHANGE KEY until DISABLED and ENTER.



- STEP to CONTINUE to PORT SETTINGS

5. MODE, MODE back to Normal screen

### TLS-4XX Consoles

From the Home Screen navigate to Setup>Communication>Serial Port screen:

Select the Serial Port connected to the DataLink modem then select:

- Configured = Enabled
- Label = Enter a name
- Baud Rate = 9600
- Data Bits = 8
- Parity = None



## DATALINK SETUP FOR READNG A TLS CONSOLE

Click on Configuration Page>Settings tab page.

1. In the **Modem** drop down box select 'MaxStream Wireless Modem', then click **Save**.

**Configuration Page**

Settings Captions Export Registration

Title:

Code:

☐ Synchronize with DataLink Enterprise Server

FTP Server:

Username:

Password:

Last Update:

Language:

☐ Launch with Windows

HTTP Port:

Password:

Guest:

To access the web page from another computer enter the following in your web browser:  
<http://10.20.97.75:83>

Modem:

Comm Port:

☒ Automatically upload transactions from EMR.

☒ Synchronize date/time with host DataLink.

☐ Convert temperature to Celsius.

☐ IB Box ☒ Head

Inventory:

TLS Alarm:

TLS Email:

☐ TLS Deliveries

Meter Ticket Printer:

Email SMTP:

Username:

Password:

From:

☐ PIN Access

☐ Debug mode (Support use only)

Select MaxStream Wireless Modem

Click Save



- The Configuration Page>Settings tab page will update and display the **TLS Modem** field. Also, Tank Page will appear in menu bar. In the **TLS Modem** field enter the number on the side of the modem connected to the TLS Console, then click Save.



Title:

Code:

☐ Synchronize with DataLink Enterprise Server

FTP Server:

Username:

Password:

Last Update:

Language:

☐ Launch with Windows

HTTP Port:

Password:

Guest:

To access the web page from another computer enter the following in your web browser:  
<http://10.2.9.162:83>

Modem:

Comm Port:

☒ Automatically upload transactions from EMR.

☒ Synchronize date/time with host DataLink.

☐ Convert temperature to Celsius.

☒ IB Box ☐ Head

Inventory:

TLS Modem:  Enter TLS Console modem number

TLS Alarm:

TLS Email:

☐ TLS Deliveries

Meter Ticket Printer:

Email SMTP:

Username:

Password:

From:

☒ PIN Access

☐ Debug mode (Support use only)

Click Save



Click on Tank Page

[Home Page](#)  
[Configuration Page](#)  
[Tank Page](#)  
[PIN Page](#)  
[Truck Page](#)  
[Truck Summary](#)  
[Last 25 Transactions](#)  
[Edit Transactions](#)  
[Reports Page](#)  
[Diagnostics Page](#)  
[Contact Us](#)

# DATA LINK

Click on tank name to get details

**Tank Page**

[Tank Page](#) [Delivery Page](#) [Terminal Mode](#)

1 unleaded	2 premium	3 super unleaded	4 super unleaded	5 diesel	6 kero	7 DEF	8 Mag D
929 (91%) 8939	930 (91%) 8938	151 (99%) 11717	12299 (51%) 12569	3261 (67%) 6607	3260 (67%) 6608	1564 (68%) 3304	5237 (11%) 631

[XML](#)

Detail of Tank

[Home Page](#)  
[Configuration Page](#)  
[Tank Page](#)  
[PIN Page](#)  
[Truck Page](#)  
[Truck Summary](#)  
[Last 25 Transactions](#)  
[Edit Transactions](#)  
[Reports Page](#)  
[Diagnostics Page](#)  
[Contact Us](#)

# DATA LINK

**Tank Page**

1 (unleaded) Delete

930 (91%)  
8938

Percent: 90.58%  
Level: 60.257  
Gross: 8,938  
Net: 0  
Ullage: 930  
Temp.: 76.53  
Wat. Lev.: 0.000  
Wat. Vol.: 0  
Date/Time: 2018/10/23 12:40:14

[<< Previous All Next >>](#)  
[XML](#)

Last time tank was  
polled by DataLink



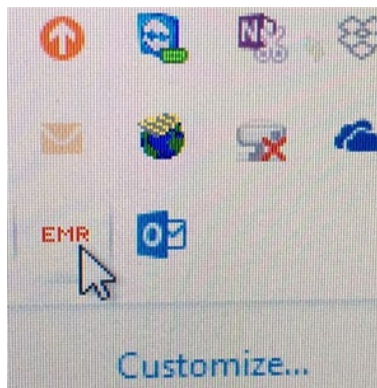
## TROUBLESHOOTING

After launching DataLink you can verify that the modem is online by following the steps below.

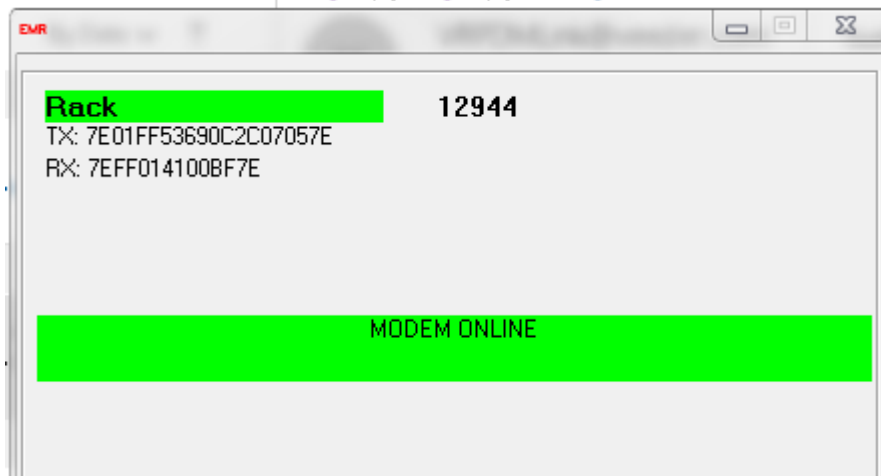
1. Click on the up arrow in the lower right hand corner of the screen:



2. Locate the red **EMR** in the task bar popup and double left click on it:

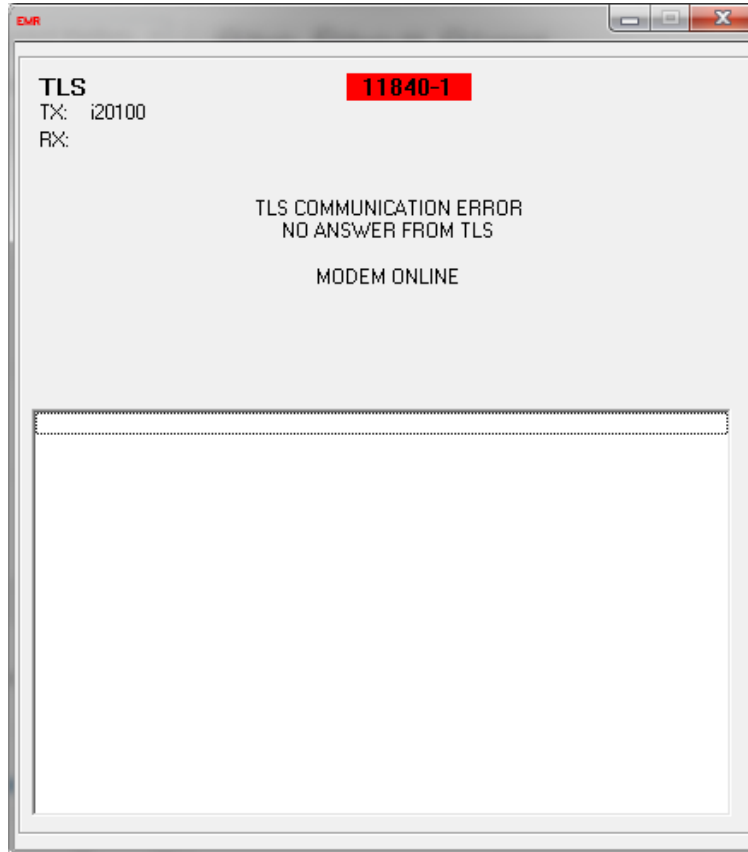


3. If you are communicating you will see this confirmation screen.





4. If you are not communicating you will see this screen:







## **WARRANTY OF MODEMS BY DIGI:**

To view warranties for modems by Digi visit <https://www.digi.com/legal/terms>.

## **MODEM REGULATORY APPROVALS:**

To view information on regulatory approvals for the Digi XTP9B-PKI-RA (or XT09-PKI-R) and XTP9B-PKC-UA (or XT09-PKC-UA) modems refer to the latest version of the XTP9B-PKI-RA (or XT09-PKI-R) and XTP9B-PKCUA (or XT09-PKC-UA) user guides and datasheets at <https://www.digi.com>.

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## **DAMAGE CLAIMS**

1. Thoroughly examine all components and units as soon as they are received. If damaged, write a complete and detailed description of the damage on the face of the freight bill. The carrier's agent *must* verify the inspection and sign the description.
2. Immediately notify the delivering carrier of damage or loss. This notification may be given either in person or by telephone. Written confirmation must be mailed within 48 hours. Railroads and motor carriers are reluctant to make adjustments for damaged merchandise unless inspected and reported promptly.
3. Risk of loss, or damage to merchandise remains with the buyer. It is the buyer's responsibility to file a claim with the carrier involved.

## **RETURN SHIPPING**

For the parts return procedure, please follow the appropriate instructions in the "General Returned Goods Policy" and "Parts Return" section of the Veeder-Root EMR4 price list.

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