

APPLICATION

GUIDE

Connecting a T5 Series Fuel Management System or Colibri Tank Monitor to a Radiant Point of Sale System.

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Overview

This document explains how to connect a T5 Series Fuel Management System or Colibri Tank Monitor to a Radiant System and allow the Radiant system to receive inventory information from the T5 Series of Colibri tank monitor. In applications where dispenser reconciliation is desired, it will also allow the Radiant system to send sales information to the T5 Series or Colibri Tank Monitor, without the need for a TS-DIMIB (Dispenser Interface Module).

Requirements

T5 Series Controller Module software version 1.8.0.6620 or greater, or Colibri 1.8.3.7080.

Communications

On the Radiant System

The hardware that runs the Radiant RSM software can vary. It may be supplied by Radiant or a third party. The method with which the system communicates to the tank monitor is done through either an RS232 communication port or an Ethernet port. This communication port may be located at the Point of Sale register or the site controller. Radiant can advise on which method is used for this installation.

In the Radiant Lighthouse Device Configuration, under the Tank Monitor section, the port can be configured as needed.

- A Device Name can be entered for reference.
- A Device Model must be selected. For use with a T5 Series, you must select "Veeder Root 350 Tank Monitor" as the Device Model. The T5 Series must have firmware of 1.8.0.6620 or above to support the TLS-350 selection. Upgrade the T5 Series if necessary. If an upgrade is not possible at the time of the install, "Veeder Root 250 Tank Monitor" can be selected on the Radiant System, but no more than 8 tanks are supported and dispenser reconciliation will not be possible.
- The Adapter setting can be selected as COM for RS232 communication and Ethernet for Ethernet port communication. Selecting COM will allow you to select the appropriate RS232 communication port next to Port Number. Selecting Ethernet will allow you to select the appropriate Ethernet port under Port Number. Selecting Ethernet next to Adapter will also allow you to enter the correct IP address next to IP Address.
- Checkmarks can be entered next to Set a product name on each tank and Set date/time on the tank monitor to support those functions.
- The tanks to be monitored can be checked under Tanks to be monitored.
- ISD Enabled should be checked when dispenser reconciliation is being supported.

On the T5 Series or Colibri Tank Monitor

If connecting to the Ethernet Port

- A standard CAT5 cable is used for a direct network connection from switch/router to the T5 Series Ethernet port.

Some hardware configurations may support a direct connection from the Radiant system to the Ethernet port. These connections require an Ethernet crossover cable. For more information, contact Franklin Fueling Technical Support at 800-984-6266

- Confirm the port programming in the T5 Series Setup.

TS550/5000/Colibri

- System-Configuration-Protocol Settings

Protocol Settings	
Veeder-Root Port	8001
Veeder-Root Client Timeout	0
Web Server Secondary Port	10001

TS550 evo

- Setup-Parameters-Communications-Protocols

Communications		
Serial Ports
Modem	Type	None
Protocols	Veeder-Root Port	8001
	Veeder-Root Client Timeout	0

The default port to receive VR commands in the T5 Series or Colibri is Port 8001. Confirm that this is consistent with the setting in the Radiant Lighthouse Device Configuration /Tank Monitor section. The Veeder-Root Port setting in the T5 Series or Colibri can be changed to match the Radiant system if necessary.

If connecting to the RS232 COMM PORT 1

Plug a straight serial cable (male end required) from the defined Radiant RS232 connector into the T5 Series Comm Port 1. See Comm Port 1 pinout configuration.

CONSOLE RS-232 COMM PORT 1 DB 9 CONNECTOR, FEMALE, DCE		
Pin No.	Function	Input/Output
2	TXA	0 →
3	RXA	I ←
5	Signal GND	
7	RTS	I ←
8	CTS	0 →

Confirm the port programming in the T5 Series Setup

Colibri RS-232 Comm Port 1		
Pin No.	Function	Input / Output
2	RXA	0 →
3	TXA	I ←
5	Signal GND	
7	RTS	I ←
8	GTS	0 →

Port programming for the Colibri Tank Monitor

**TS550/5000/Colibri
System-Configuration-COMM 1**

COMM 1	
Mode	Veeder-Root
Baud Rate	9600
Data Bits	8
Parity	None
Stop Bits	1

TS550 evo

**Setup-Parameters-Communications/Serial Ports/
Comm 1**

Communications		
Serial Ports		
Comm 1	Mode	Veeder-Root
	Baud Rate	9600
	Data Bits	8
	Parity	None
	Stop Bits	1

- Mode: Veeder-Root
- Baud Rate, Data Bits, Parity, Stop Bits-Match Radiant Settings

Save changes in the T5 series after all of the programming changes are complete.

Verify Operation

Radiant Receiving Tank Inventory

- Check the Radiant display to ensure there are no Tank Monitor Offline indications.
- Verify that the Radiant system is receiving tank level information. From the main screen, select
 - Other Functions/Tank Levels
 Tank Level information will be displayed on the screen.
 - T5 Series Receiving Dispenser Sales Information (BIR)

To process the dispenser sales information being sent from the Radiant system, the T5 Series or Colibri must be setup with the correct Dispenser Interface programming. The Grades and Fueling Point information must be entered. A successful Query at a Fueling Point confirms that the T5 Series or Colibri is receiving sales information.

For specific information on Dispenser Interface programming and using the Query function, refer to the T5 Series Full Management System Programming Guide FFS 000-2142 or the Colibri Setup and Operation guide 000-2155.

For assistance, call Franklin Fueling Technical Support at 800-984-6266.



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