Gilbarco Interface Module

Installation Guide

VEEDER-ROOT

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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.

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WARRANTY

Please see next page, iii.

Warranty

TLS-350R, TLS-350 PLUS, TLS-350J AND TLS-300I/C, AND TLS-2 MONITORING SYSTEMS.

We warrant that this product shall be free from defects in material and workmanship for a period of one (1) year from the date of installation or twenty-four (24 months) from the date of invoice, whichever occurs first. During the warranty period, we or our representative will repair or replace the product, if determined by us to be defective, at the location where the product is in use and at no charge to the purchaser. LAMPS AND FUSES ARE NOT COVERED UNDER WARRANTY.

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ILS-350 MONITORING SYSTEMS

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This warranty applies only when the product is installed in accordance with Veeder-Root's specifications, and a Warranty Registration and Checkout Form has been filed with Veeder-Root by an Authorized Veeder-Root Distributor. This warranty will not apply to any product which has been subjected to misuse, negligence, accidents, systems that are misapplied or are not installed per Veeder-Root specifications, modified or repaired by unauthorized persons, or damage related to acts of God.

MODULES, KITS, OTHER COMPONENTS (PARTS PURCHASED SEPARATE OF A COMPLETE CONSOLE).

We warrant that this product shall be free from defects in material and workmanship for a period of fifteen (15) months from date of invoice. We will repair or replace the product if the product is returned to us; transportation prepaid, within the warranty period, and is determined by us to be defective. This warranty will not apply to any product which has been subjected to misuse, negligence, accidents, systems that are misapplied or are not installed per Veeder-Root specifications, modified or repaired by unauthorized persons, or damage related to acts of God.

We shall not be responsible for any expenses incurred by the user.

Figures

Introduction

This manual contains installation procedures for the Gilbarco Dispenser Interface Module (DIM) in existing TLS-350R systems designed and manufactured by Veeder-Root.

The DIM allows the console to gather relevant dispensing information, including how much product has been dispensed from each fueling station, and reports tank level information to the Point-Of-Sale (POS).

For additional information regarding Interface Modules, refer to the *Veeder-Root TLS-3XX System Setup* manual. If this is a new installation or if site preparation is necessary, refer to the *Veeder-Root TLS-3XX Site Preparation and Installation Instructions* manual, or contact your Veeder-Root representative for assistance.

Compatible POS & Controllers

- G-Site POS - All versions.
- Passports - Versions with protocol included.

TLS-350R Hardware Requirements

- TLS-350R Console with Business Inventory Reconciliation (BIR)
- Gilbarco DIM and installation kit (Table 1):

Table 1. DIM and Installation Kit

Dispenser Controller / POS Type	DIM P/N w/console	DIM Install Kit P/N	Notes
G-Site	330280-401	331063-XXX	To support this DIM and the TLS-350R, the G-site must be upgraded to include the EMC interface. Uses Controller types C2, C15, 486 and Pentium Site controllers.
Passport			Verify BIR protocol is version C

Required TLS-350R Software

- System Software: Version 17 (or higher)

SPECIFIC LIMITATIONS

- Up to 36 Gilbarco Uni-Hose/MPD fueling positions are supported.
- In-dispenser credit card readers (CRINDS) are supported.

To support a DIM and the TLS-350R, the G-Site must be upgraded to include EMC interface capability. This has been released in the following G-Site versions (EMC Interface capability will be released into the Generic G-Site version 6):

- Exxon - version 25.0.243
- Shell - version 33.1.23
- Chevron Canada - version 8.1.10

Safety Precautions

The following safety symbols may be used throughout this manual to alert you to important safety hazards and precautions.

	EXPLOSIVE Fuels and their vapors are extremely explosive if ignited.		**ELECTRICITY** High voltage exists in, and is supplied to, the device. A potential shock hazard exists.
	TURN POWER OFF Live power to a device creates a potential shock hazard. Turn Off power to the device and associated accessories when servicing the unit.		**WARNING** Heed the adjacent instructions to avoid equipment damage or personal injury.
	READ ALL RELATED MANUALS Knowledge of all related procedures before you begin work is important. Read and understand all manuals thoroughly. If you do not understand a procedure, ask someone who does.		

Safety Warnings

⚠ WARNING

You are working with a device in which potentially lethal voltages may be present.

Death or injury may result if safety precautions are not followed.

When installing this product:

1. **Read and understand all instructions.**
2. **Turn power off before installing this kit**

TLS-350R Requirements

Verifying BIR Is Installed

1. Press the MODE key until the front panel display reads:

> **DIAG MODE**
> **PRESS <FUNCTION> TO CONT**

2. Press the FUNCTION key until the front panel display reads:

> **SYSTEM DIAGNOSTIC**
> **PRESS <STEP> TO CONTINUE**

3. Print out a description of the software currently in your system. Press the PRINT key and the printer prints:

```
SOFTWARE REVISION LEVEL
VERSION XXX.XX
SOFTWARE# XXXXXX-XXX-XXX
CREATED - YY.MM.DD.HH.MM

S-MODULE# XXXXXX-XXX-X
SYSTEM FEATURES:
  PERIODIC IN-TANK TESTS
  ANNUAL IN-TANK TESTS
  CSLD
  BIR  ← you will see BIR on the printout if BIR is installed
  FUEL MANAGER
  PRECISION PLLD
```

4. Press the MODE key to return to the main screen:

> **MMM DD, YYYY HH:MM:SS XM**
> **ALL FUNCTIONS NORMAL**

Installation

DIM Installation

The DIM module can only be installed in slots 1, 2, or 3 of the console's comm bay only. Slot 4 cannot be used for this module.

1. Open the left-hand door of the TLS-350R console by unscrewing the left-top and left-bottom locking bolts.

2. To retain current programming, be sure that the ECPU board battery switch is set to "ON". To avoid electrical shock or damage to components when accessing the battery switch, avoid touching any circuit components with your hand or any conductive tool.

3. Remove the existing retaining bracket panel from the communication compartment.

4. Hold the interface module with its snap-in fastener positioned at the lower edge and carefully slide the module into its slot as shown in Figure 1.

5. To secure the module, press down on the snap-in fastener until its connector engages completely with the connector on the board. Do not apply excessive force when installing the module.

6. BE SURE ALL UNUSED SLOTS at the bottom of the communication compartment ARE COVERED!

7. Check to see that the three position module connector is accessible through the slot opening in the bottom of the console once installation is complete.

Comm Bay
Card Cage

24-pin board
connector

consoles\dimcdcg2.eps

Use empty slots 1 - 3 only
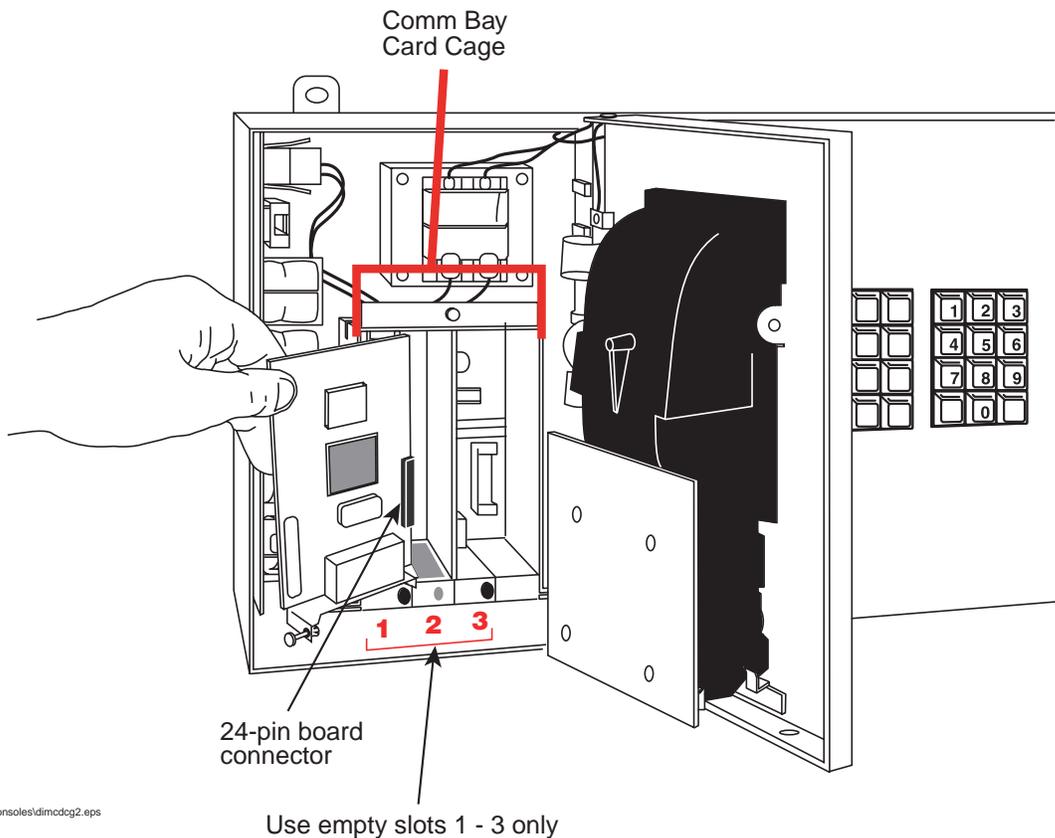
Figure 1.   Interface Module Card Installation

G-SITE Installations

The 331063-xxx kit contains two gender mender adapters that are not identical. One gender mender is used for PC G-SITE applications while both are used for C-2 G-SITEs. As shown in Figure 2, be sure to use the correct part at the connection points.

1. Connect adapter Q13180-03/331138-001 to the 25 pin D connector on DIM board installed in the TLS.

2. Connect one end of the RJ-45 cable to the adapter.

3. Do *one* of the following:

    For a PC G-SITE - Connect the RJ-45 cable to the jack marked "TANK MON" at the back of the G-SITE™ CPU (see Figure 2, Diagram A).

    For a C-2 G-SITE - Connect adapter 331138-002 to the RJ-45 cable and then to the C-2 controller RS-232 TANK GAUGE port (see Figure 2, Diagram B).
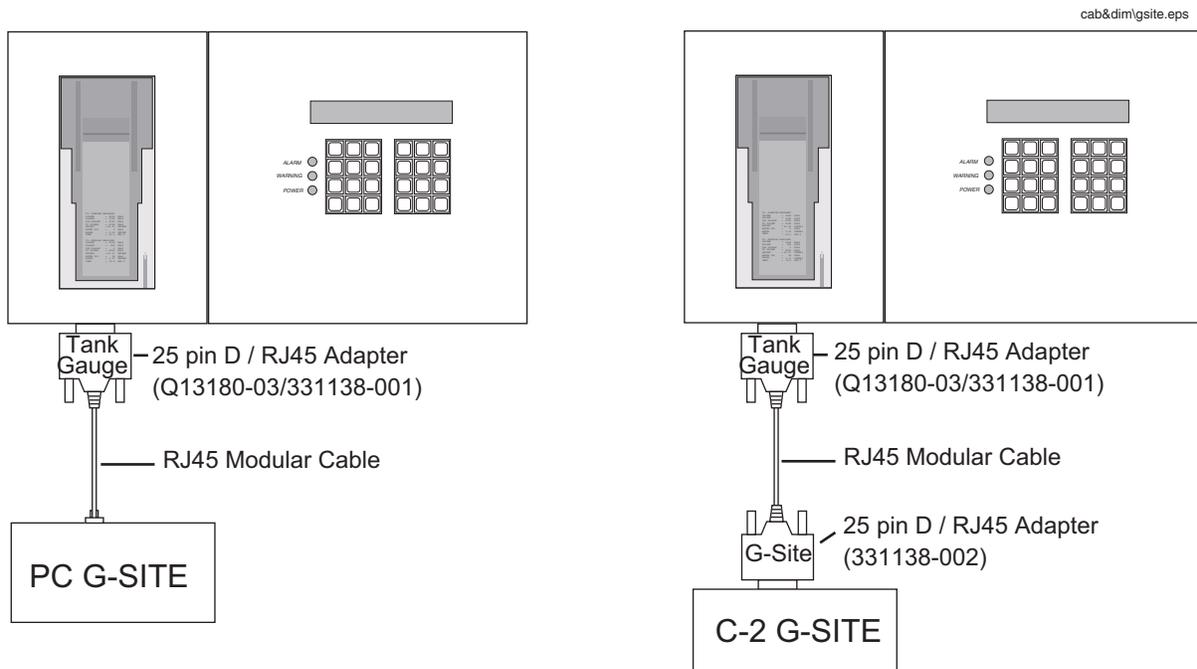
Diagram A. PC G-Site Install   **Diagram B. C-2 G-Site Install**

Figure 2.   Installation Examples

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