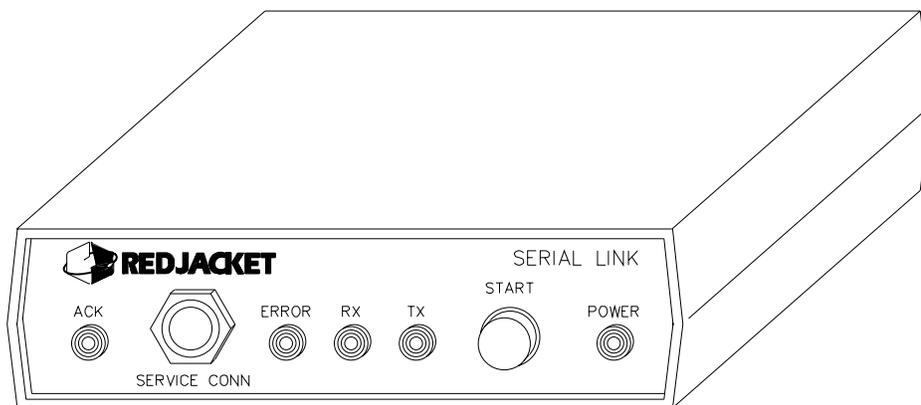


ProLink

Serial Link G-SITE Application Installation Manual



ProLink Fuel Management System

RE260-363
Rev A
April '00

Serial Link G-SITE Installation Manual

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Certifications and Listings

Marley Pump Company is ISO 9001 certified.

The ProLink has been approved by Underwriters Laboratories to carry the UL Listing Mark.

The ProLink has been approved by Underwriters Laboratories of Canada to carry the ULC Listing Mark.

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About This Manual

This preface describes the organization of this manual, explains symbols, typographical conventions used, and defines vital terminology.

Organization

This manual is organized as follows:

Chapter 1: Overview and Installation

Chapter 2: Connecting to a Network

Appendix A: Replacement Parts

Index

Typographical Conventions

Numeric Formats:	A numeric zero looks like 0 in this document. An uppercase letter “oh” is rendered as O. A numeric one looks like 1 in this document. A lowercase letter “ell” is rendered as l. However, to prevent confusion, the abbreviation for milliliter includes a capital letter (mL).
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Terminology

The following terms are used throughout this manual to emphasize the presence of hazards of various risk levels, or to highlight important information concerning use of the product.

DANGER!!

Indicates the presence of a hazard that **will** cause **severe** personal injury, death, or substantial property damage **if ignored**.

WARNING!

Indicates the presence of a hazard that **can** cause **severe** personal injury, death, or substantial property damage **if ignored**.

Caution

Indicates the presence of a hazard that **will** or **can** cause **minor** personal injury or property damage **if ignored**.

Notice

Indicates special instructions on installation, operation, or maintenance that are important but not related to personal injury hazards

Chapter 1: Overview and Installation

This Chapter Explains

- Overview of the Serial Link, G-SITE Application
- System Description
- Installing the Serial Link
 - DIP Switch Settings

Overview of the Serial Link, G-SITE Application

The Serial Link, G-SITE is an electronic device that interfaces between a Prolink network and the G-SITE console. This allows the Serial Link to retrieve dispensed data and supply it to the Prolink Network for reconciliation purposes.

NOTICE

Reconciliation also requires a Reconciliation Network Card or Reconciliation Daughter Card installed in a Prolink Chassis.

The Serial Link G-SITE application also provides a means for updating the G-SITE console with tank gauging information such as inventory levels, alarms, etc.

The Serial Link, G-SITE hardware connects to the G-SITE Console via a RJ45 to DB9 adapter and the tank monitor cable supplied with the G-SITE console.

System Description

- The Serial Link is housed in a small enclosure (approx. 6 in × 6 in) which can be wall mounted with the supplied bracket, or located on a desk or shelf. Multiple Serial Links may be used.
- 6VDC power for the Serial Link is supplied by the included 120VAC 60Hz adapter. (For international applications, a 220VAC 50Hz model is available.)

Installing the Serial Link

Mount the Serial Link enclosure within 9-ft (depending on cable length) of the G-SITE console and within 6-ft of a 110 VAC electrical outlet. Use the wall mount bracket provided or locate the Serial Link on a desk or shelf. Be sure both front and rear panels are accessible. If using the wall mount bracket, attach the Serial Link to the bracket with the two screws provided. (wall mounting hardware not included) Do Not plug AC adapter into electrical outlet at this time.

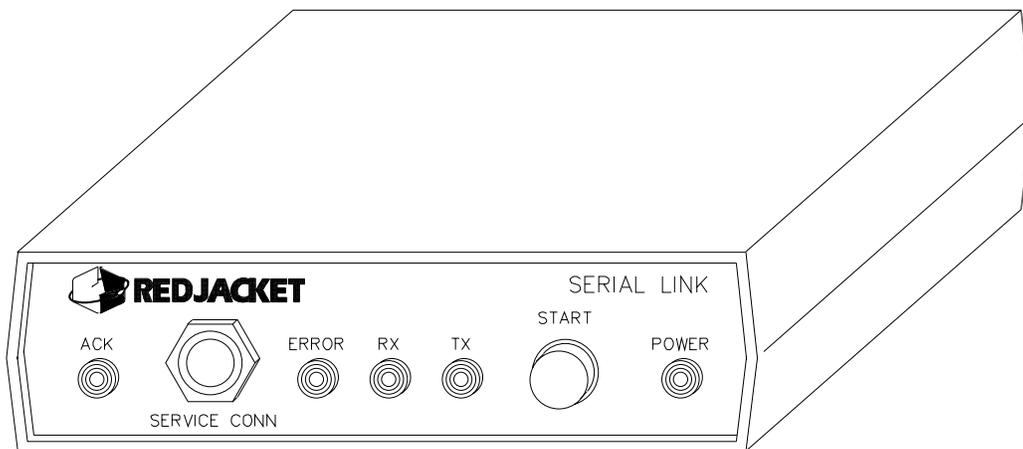


Figure 1.1 Serial Link, Front View

ACK Light: A red LED that reflects the state of the application (i.e., service acknowledge).

PCC-10 Jack: Jack for making a connection between a PCC-10 PCMCIA card on a laptop computer and the Serial Link to access the network.

Error Light: This is application-specific and is *not* used by the G-SITE application.

Receive (RX) Light: A red LED illuminates when the Serial Link is *receiving* data over the RS232 link.

Transmit (TX) light: A red LED illuminates when the Serial Link is *sending* data over the RS232 link.

Power Light: A green LED that is lit when the Serial Link is energized.

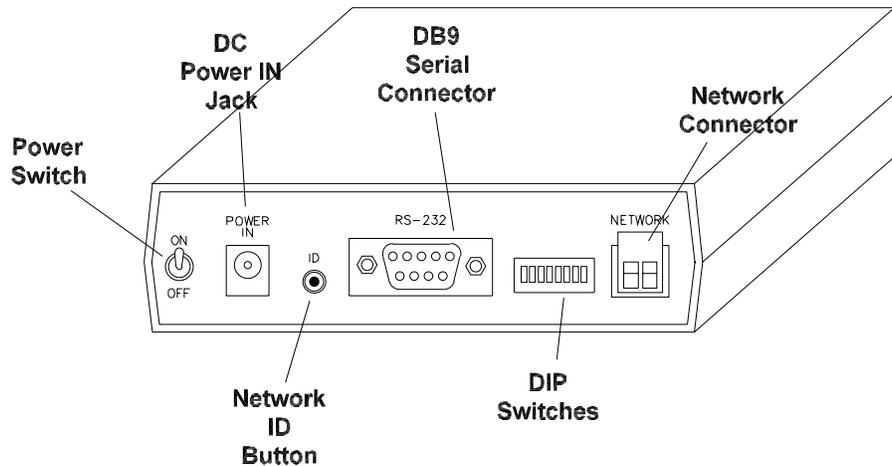


Figure 1.2 Serial Link, Rear View

On/Off switch: The toggle switch that turns the unit on or off.

Power In Jack: Jack for supplying DC power to the unit.

ID Button: Used to identify the individual Serial Link to the network configuration software. (Pathway Plus)

DIP switches: Used to configure network termination and battery backup.

Network Connector: 2-pin Phoenix type network cable connector.

DIP Switch Settings

The DIP switches are arranged from 1 - 6, left to right.

DIP Switch Number	Switch Position	Description
1	Down	Battery backup is enabled.
	Up	Battery backup is disabled.
2	Down	Undefined.
	Up	Undefined
3	Down	Undefined.
	Up	Undefined
4	Down	Undefined
	Up	Undefined
5	Down	Network termination is enabled
	Up	Network termination is disabled
6	Down	Network type is single-ended termination
	Up	Network type is double-ended termination

Notice

DIP switch positions 2, 3, and 4 are not used for the G-SITE application.

Notice

The Battery Backup must be enabled to allow the G-SITE application to preserve sales accumulations during powerdown or brown-out conditions. Before continuing, make sure DIP Switch Number 1 is in the 'Down' position.

Chapter 2: Connecting to a Network

This Chapter Explains

- **Network Connections**
- **Serial Link, G-SITE Application Connection**
 - Connecting the Serial Link to the Prolink
 - Connecting the Serial Link to the G-SITE Console
- **Pathway Plus Setup**

Network Connections

The Serial Link, G-SITE Application is connected to the Prolink Network through the two terminal network connectors located on the back of the Serial Link enclosure (refer to figure 2.1). The Serial Link can also function as a network termination for the Prolink Network.

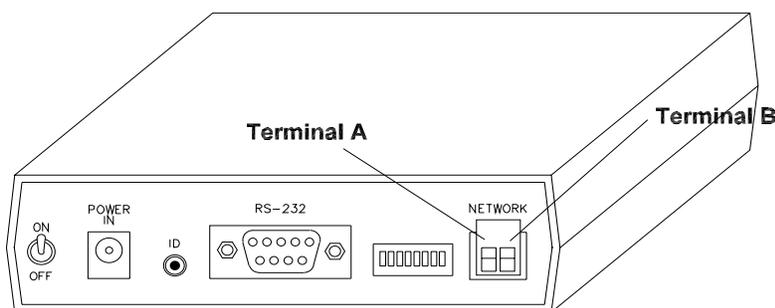


Figure 2.1 Serial Link Network Terminator Connector

*Network wiring is polarity independent.

Serial Link, G-SITE Application Connections

The Serial Link G-SITE Application needs to be connected to both the Prolink Network (via the two wire network cable) and to the G-SITE Console (via the RS-232 Port).

Connecting the Serial Link to the Prolink

The following procedure should be followed when connecting the Serial Link to the Prolink chassis (refer to figure 2.2).

Notice Make sure that the Red Jacket Network cable is used (RE 400-680).

Step 1: Route the network cable into the Prolink enclosure through a free knockout on the bottom of the enclosure.

Step 2: Connect the two network cable conductors to the network terminals A and B on the Prolink power supply board. Polarity is important. See figure 2.2

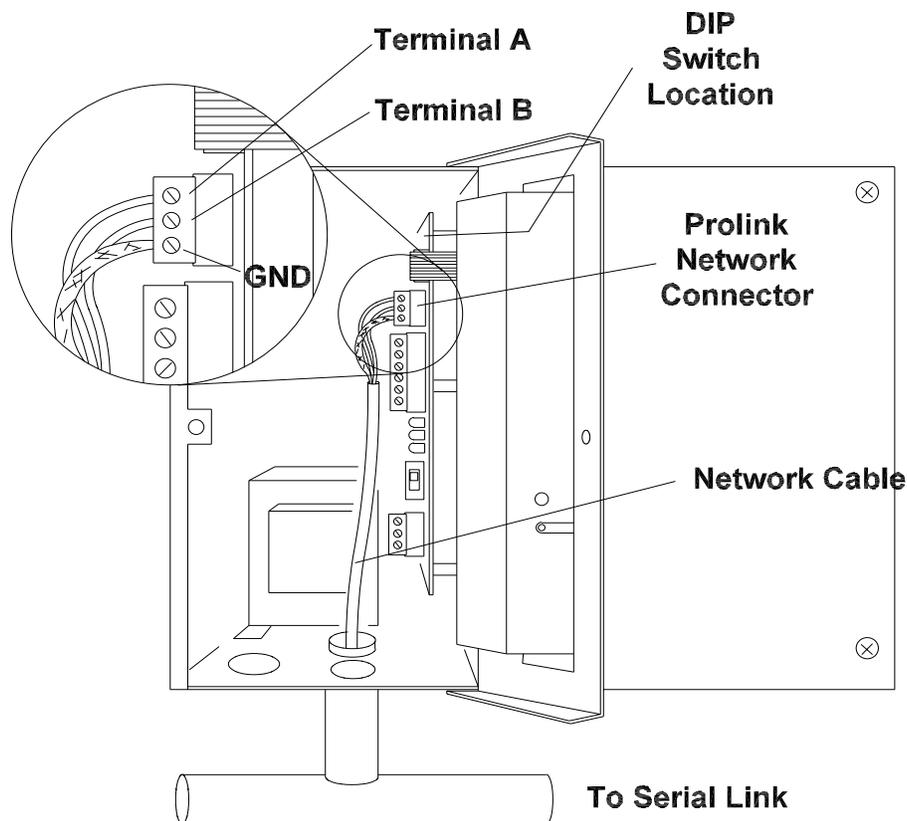


Figure 2.2 Network cable connectors to Prolink

Step 3: Route the network cable from the Prolink to the Serial Link.

Step 4: Connect the two network cable conductors to the A and B terminals on the Serial Link. Polarity is important. See figure 2.1

Step 5: After connecting the cables, connect the power supply cord and turn the Serial Link on by moving the toggle switch located on the back of the enclosure to the ON position.

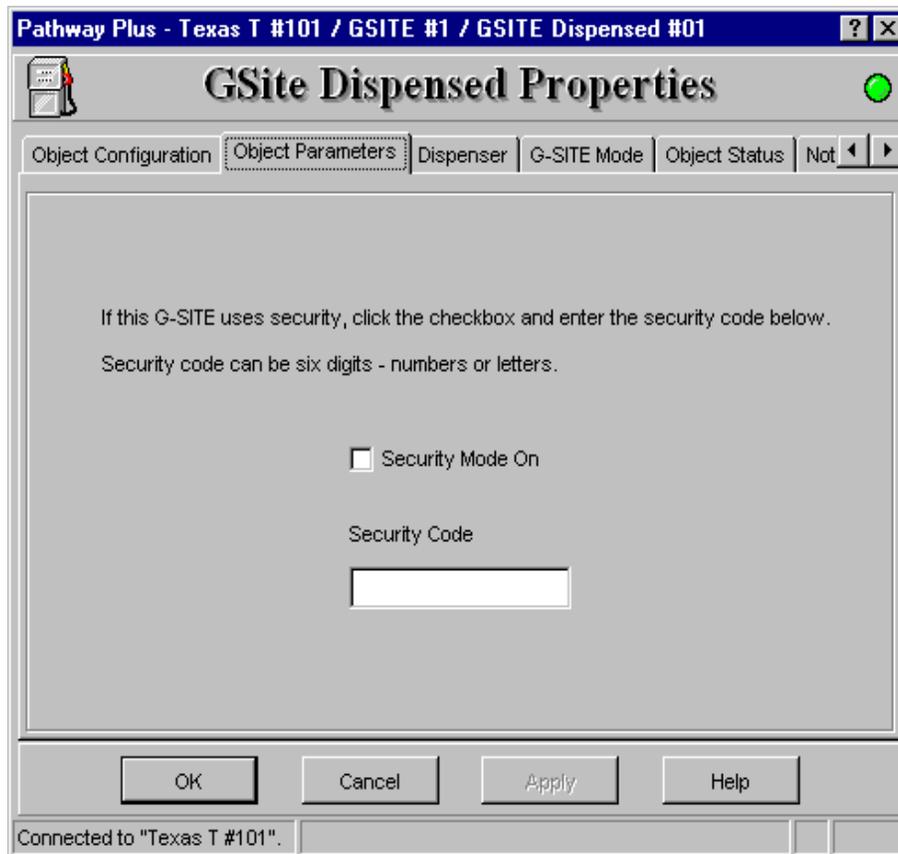
Connecting the Serial Link to the G-SITE Console

Make sure at this point that DIP switch 1 is in the down position to enable battery backup. The battery backup must be enabled to allow the G-SITE Application to preserve sales accumulations during powerdown or brown-out conditions. The Serial Link connects to the G-SITE Console through the DB9 connector on the Serial Link and the RJ45 tank monitor port on the G-SITE Console. An RJ45 cable is supplied with the G-SITE Console. Plug the RJ45 cable into the tank monitor port on the G-SITE Console. The other end of the RJ45 cable connects to the Serial Link with the RJ45 to DB9 converter provided. After the physical connection between the Serial Link and the G-SITE Console have been made, the tank monitor port needs to be enabled on the G-SITE Console. To enable the tank monitor port perform the following steps:

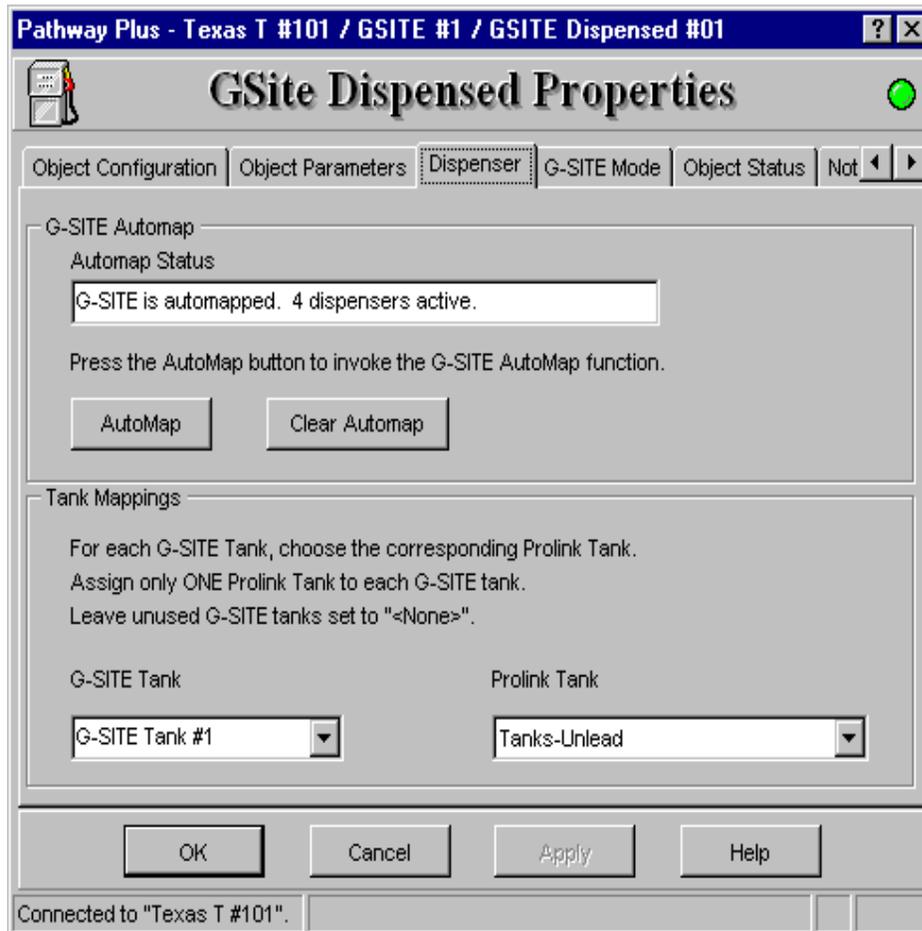
1. Insert the black key into the G-SITE Console (Manager Mode).
2. Select option three for ‘Fuel Data Programming.’
3. Select option four for ‘Tank Monitor Installation.’
4. Select the EMC tank monitor (not tankmonitor2).
5. Remove key.

Pathway Plus Setup

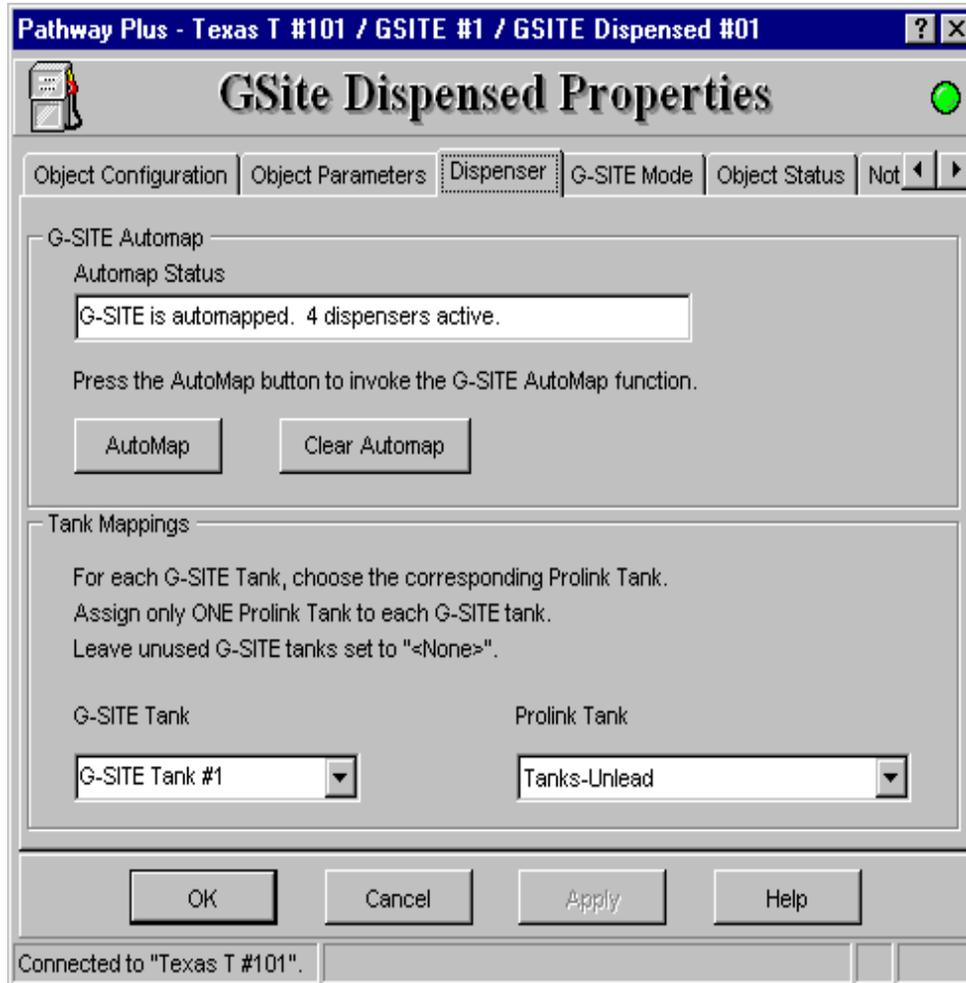
Security Code: The RS232 command message format permits an optional six digit security code following the initial <SOH> and preceding each command message. If the security code option has been enabled in the G-SITE, the required security code must be entered to allow the Prolink to communicate with the G-SITE Console.



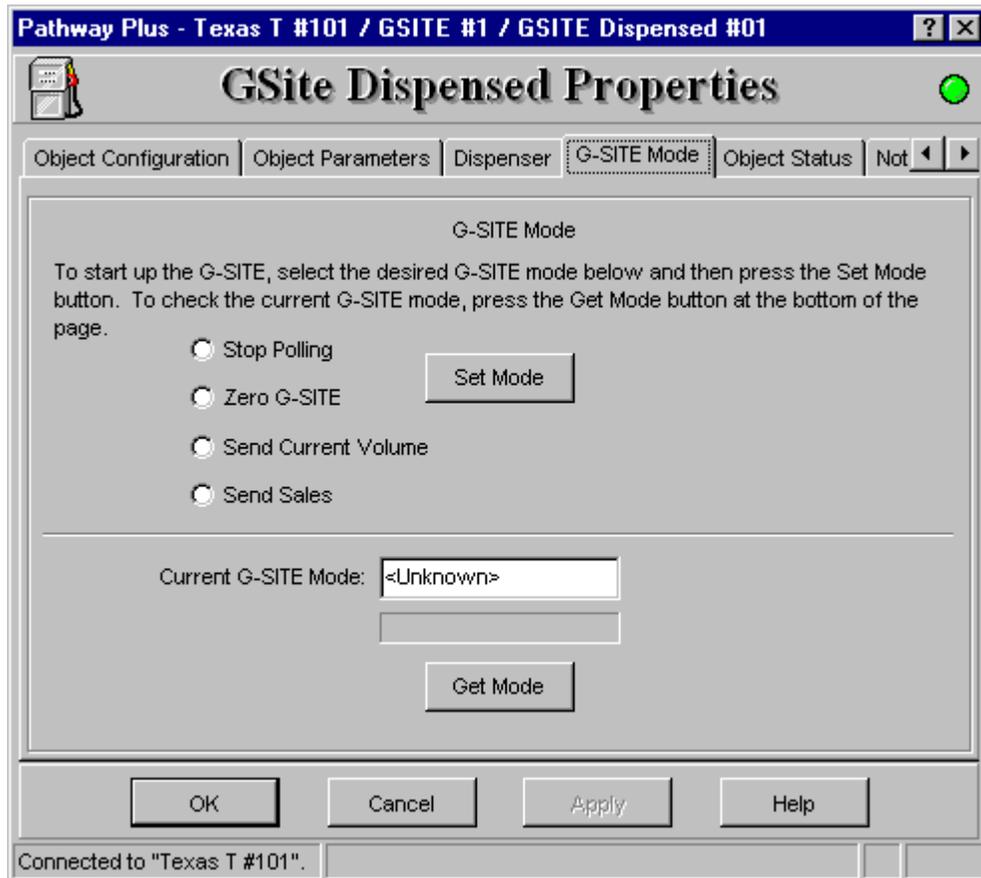
Automapping: The automapping button on the G-SITE properties dialog box instructs the G-SITE application to query the G-SITE Console for dispenser mapping information. When you push or activate this button it will determine the number of dispensers. After the G-SITE Application receives the information it will display the active number of dispensers.



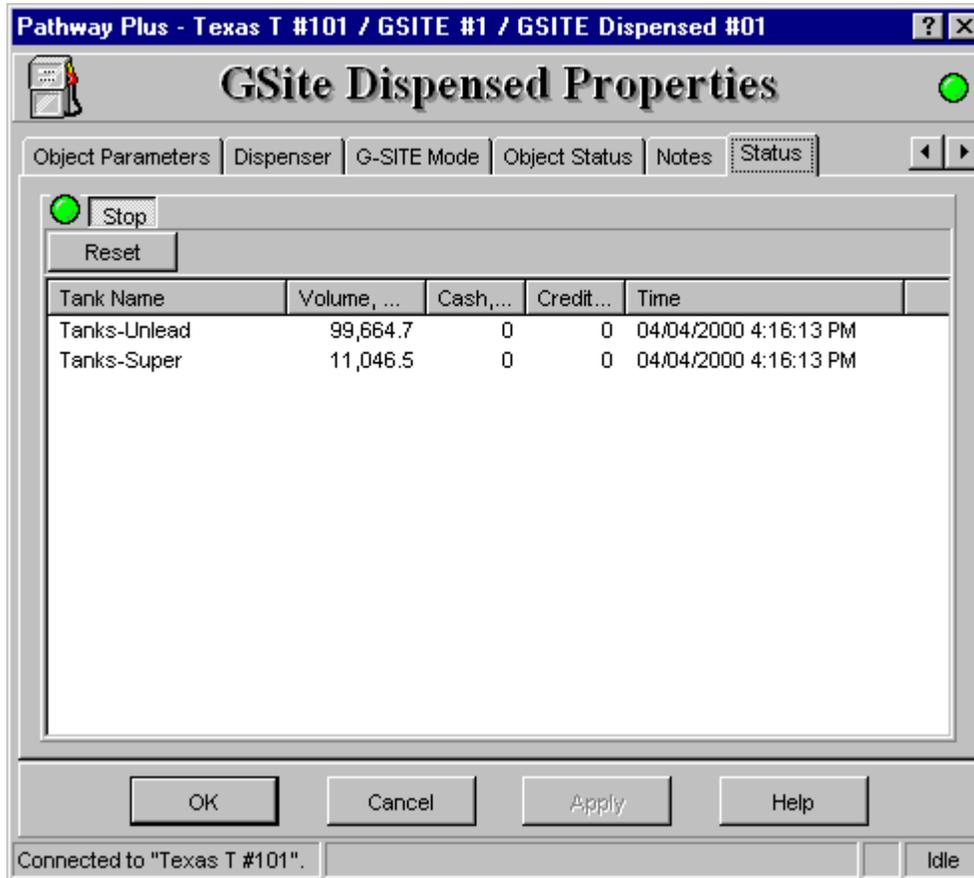
Tank associations: After pressing the automap button to query the G-SITE Console for dispenser mapping assignments. Pathway Plus will return with a list of tanks reported by the G-SITE. Use the pull down edit to associate each G-SITE Console reported tank with the corresponding tank as defined within the Prolink. **Note:** Every active tank reported back by the G-SITE must be matched up with its representation on the Prolink Network.



G-SITE Mode: After automapping you are given the chance to set the G-SITE Mode of operation. The default mode of operation for the G-SITE Application is ‘Stop Polling.’ In ‘Zero G-SITE’ option will clear all totals from the G-SITE Application. This action is permanent and results in the loss of all previously stored data. The ‘Send Current Volume’ option is used for normal operation of the G-SITE Application. This mode results in accumulation of tank totals. Select ‘Send Current Volume’ and press the Set Mode button.



Status Monitor: The Status Monitor displays all the tanks in the current system. For each tank in the system the total volume dispensed and a time stamp of the last transaction are shown. If the G-SITE Application doesn't appear to be collecting data, review installation procedure.



Appendix A: Replacement Parts

Part Number	Description
RJ 400-774-5	Serial Link, G-SITE Application, with 120 VAC adapter
RJ 400-775-5	Serial Link, G-SITE Application, with 220 VAC adapter
RE 350-170	Adapter RJ45 to DB9
RE 400-680	22-gauge, 2 conductor Twisted Pair Cable with PVC Jacket (network cable)



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