



TS-DIMIB

Cable Installation Instructions

The Dispenser Interface Module cables can be connected only if the TS-5 series tank gauge has the TS-DIMIB hardware option OR has had the TS-DIMIB Internal Dispenser Interface Module installed on-site as an upgrade. (See Internal Dispenser Interface Module Upgrade Installation Instructions p/n 000-0131.)

TSP-GDCBL

Contains:

- (1) 600-0201 Gilbarco Current Loop Cable
- (1) 600-0202 Gilbarco RS422 Cable
- (1) 601-1003 DB9F to RJ45 Adapter
- (1) 601-1004 RJ45 to DB9M Adapter

Gilbarco dispensing systems use several types of distribution boxes. This table of D-Box part numbers with descriptions will assist you in determining which connection method to the TS-DIMIB meets your requirements. Gilbarco uses two different electrical means of transmitting data-current loop and RS422.

NOTE: Some Universal D-boxes may have the ability to have the communication type changed in the field. If communication cannot be established, the communication type should be verified. Refer to the Gilbarco Universal Distribution Box Installation Manual noting the position choices for jumpers 10 and 12.

D-Box Part No.	Description
PA01330000	Old style D-Box with circular DINN connector (CURRENT LOOP)
PA0261x000010	Universal D-Box with DB9P male (CURRENT LOOP)-one board
PA0261x000020	Universal D-Box with DB9P male (CURRENT LOOP)-two boards
PA0261x000011	Universal D-Box with DB9S female (RS422)-one board
PA0261x000021	Universal D-Box with DB9S female (RS422)-two boards
PA03060020	G-SITE D-Box with RJ45 connector (CURRENT LOOP)
PA0242	TS1000 D-Box with DB9P connector (CURRENT LOOP)

- **If the Gilbarco system uses a current loop style Universal D-Box or a TS1000 D-Box**, disconnect the Gilbarco console/controller from the distribution box and connect the Gilbarco style Dispenser Interface Module Cable (p/n 600-0201) to the Gilbarco D-Box. Plug the long end of the Dispenser Interface Module Cable (p/n 600-0201) into the TS-5 series CURRENT LOOP communication port (Figure 1).

- **If the Gilbarco system uses an RS422 style Universal D-Box**, disconnect the Gilbarco console/controller from the D-Box and connect the Gilbarco style Dispenser Interface Module Cable (p/n 600-0202) to the Gilbarco D-Box. Plug the long end of the Dispenser Interface Module Cable (p/n 600-0202) into the TS-5 series RS422/232 communication port (Figure 1).

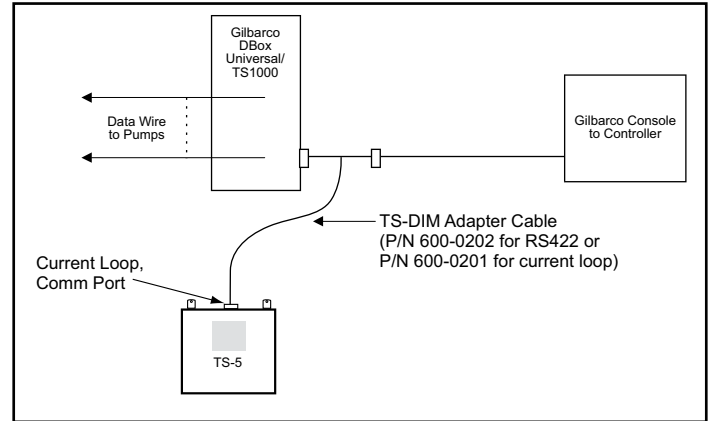


Figure 1: Connecting to Gilbarco D-Box Universal/TS1000

1. **If the Gilbarco system uses a PA01330000 D-Box**, cut off the “T” end of the Gilbarco style Dispenser Interface Module Cable (p/n 600-0201).
2. Locate an unused position in the Gilbarco D-Box.
3. Check that the switch is in the ‘Isolate’ position.
4. Connect the cut end of the adapter cable to the Gilbarco D-Box at this position.
5. Move the switch to the ‘Normal’ position.

If the D-Box positions are all is use, wire the Gilbarco style Dispenser Interface Module Cable (p/n 600-0201) in series with an existing pump. Plug the connector end of the 600-0201 adapter cable into the TS-5 series CURRENT LOOP communication port (Figure 2).

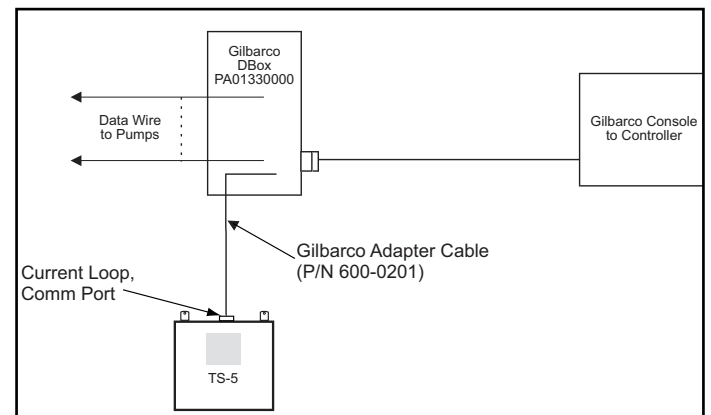


Figure 2: Connecting to Gilbarco D-Box PA01330000

- If the Gilbarco system uses a PA03060020 D-Box, disconnect the Gilbarco console/controller from the distribution box and connect the Gilbarco style Dispenser Interface Cable (600-0201) to the Gilbarco D-Box between the two supplied adapters (p/n's 601-1003 and 601-1004). Connect the long end of the Gilbarco style Dispenser Interface Cable (600-0201) to the TS-5 series CURRENT LOOP communication port (Figure 3).

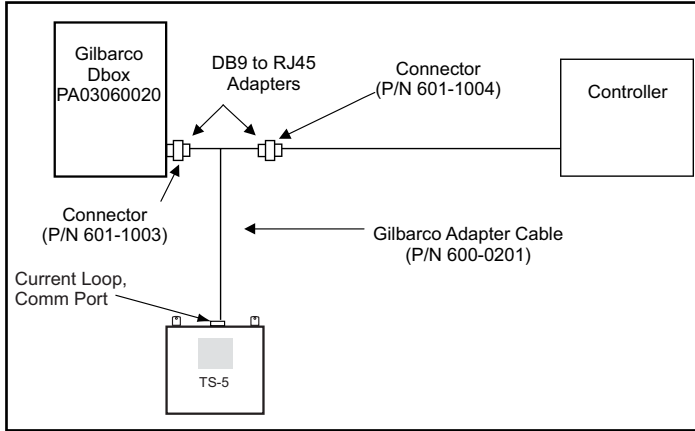


Figure 3: Connecting to Gilbarco D-Box PA03060020

TSP-GSDCBL

Contains

- (1) 600-0205 Gilbarco G-SITE Cable
- (1) 601-1002 RJ45 to DB9 Adapter
- (1) 601-1005 Passport Serial Adapter

The TSP-GSDCBL cable is used specifically for connecting the TS-DIMIB interface module to a Gilbarco Major Oil Company (MOC) G-Site or Passport System.

G-Site

Note: Verify that the G-SITE will support the EMC tank monitoring option. If the G-SITE does not support this option, a software revision will be required from an authorized Gilbarco distributor.

Locate the G-SITE controller EMC tank monitor port. Connect the TS-5 series RS422/232 communication port to the G-SITE using the Gilbarco G-Site Dispenser Interface Cable (p/n 600-0205) and the RJ45 adapters (p/n 601-1001 and p/n 601-1002).

If the G-SITE is a 486 style controller, adapter p/n 601-1001 will not be needed (Figure 4).

Note: Some installations may require a longer cable than p/n 600-0205. If so, a standard CAT5 cable can be used.

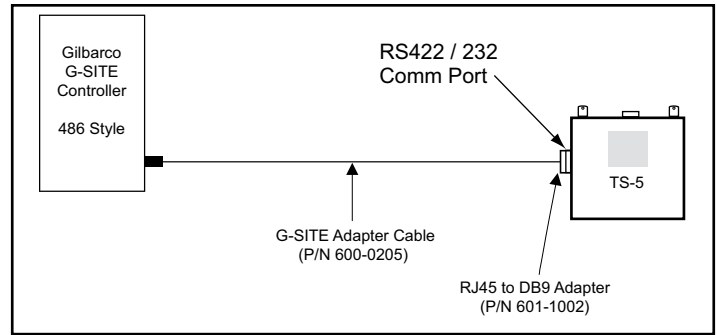


Figure 4: Connecting to Gilbarco 486 G-SITE

Note: If the G-Site is using the C2 Style controller contact Tech Support for the correct parts and instructions.

Passport Site Installation notes

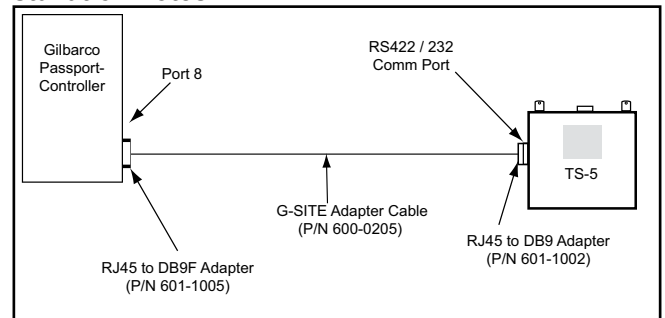


Figure 5: Connecting to Gilbarco Passport Site

- The Passport must be version 3.06.xx.xxx or higher to support Tank Monitor devices.
- The ATG connects to the server on the Standalone Manager Workstation or a Combined Cashier/Manager Workstation through the 8-port USB/RS-232 Converter. If you are connecting to a Combined Cashier/Manager Workstation the Passport may require a second 8-port USB/RS232 Converter.
- The ports on each converter are numbered 1 through 8. However, when programming the Passport you will need to add 4 to the printed port on the first converter and add 12 to the printed port number on the second converter to determine what port number you are connected to. (i.e. port 1 on the first converter is seen by the Passport as port5 and port 8 on the second converter is seen as port 20)
- The Passport tank monitor settings will need to be changed under the Forecourt installation setup page. Select the EMC setting. Select the port number determined above and configure that port to match the DIM settings :1200 7 E 1(1200 Baud, 7 Data bits, Even parity and 1 stop bit).

TSP-WDCBL

Contains

(1) 600-0203 Dresser Wayne Adapter Cable

1. Plug the Wayne Dispenser Interface Cable (p/n 600-0203) into the TS-5 series CURRENT LOOP communication port (Figure 6).

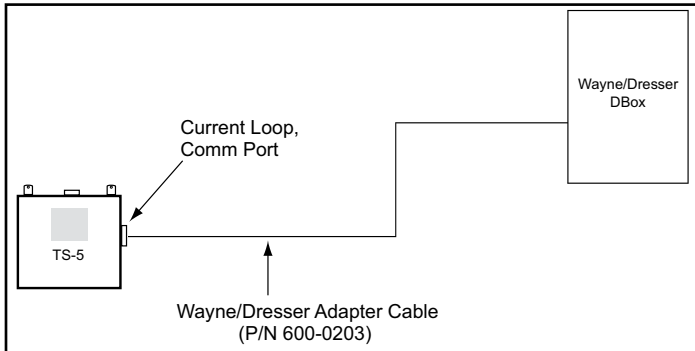


Figure 6: Connecting to Wayne/Dresser - Typical Installation

2. Locate the Wayne/Dresser Distribution box and connect the other end of the adapter cable to an unused pump position in the D-Box. If the D-Box is full, wire the adapter in “series” with an existing pump. The following chart shows the relationship between wire color and function

Black	Loop 1	-
Red	Loop 1	+
Green	Loop 2	-
White	Loop 2	+

On Wayne/Dresser D-Boxes with pumps wired into one side of the D-Box board, only one loop needs to be connected. For units with both sides of the D-Box board wired, Loop 1 and Loop 2 must be connected (Figure 7).

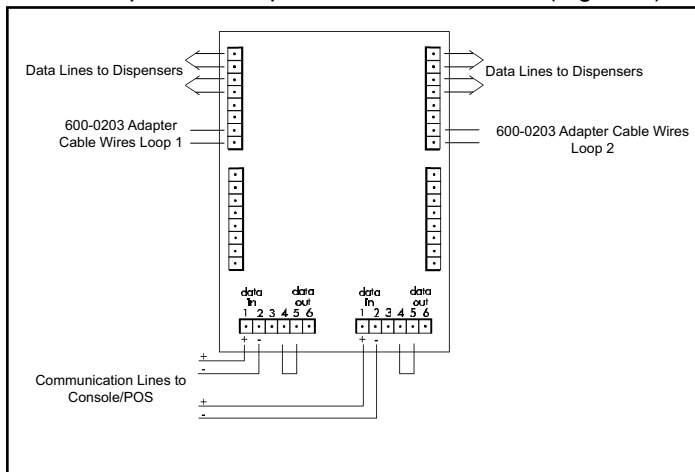


Figure 7: Wayne/Dresser D-Box Connection Example

TSP-TDCBL

Contains

(1) 600-0204 Tokheim Adapter Cable

1. Plug the adapter cable (p/n 600-0204) into the TS-5 series RS422/232 communication port.
2. Locate the round black connectors on the existing console to D-Box cable.
3. Disconnect the existing console/controller cable from the Tokheim M98/M94 Power Center, the 67 D-Box, or the 67B D-Box.
4. Attach the Tokheim Dispenser Interface Cable (p/n 600-0204) to the cable ends from the console/controller and from the D-Box/power center (Figure 8).

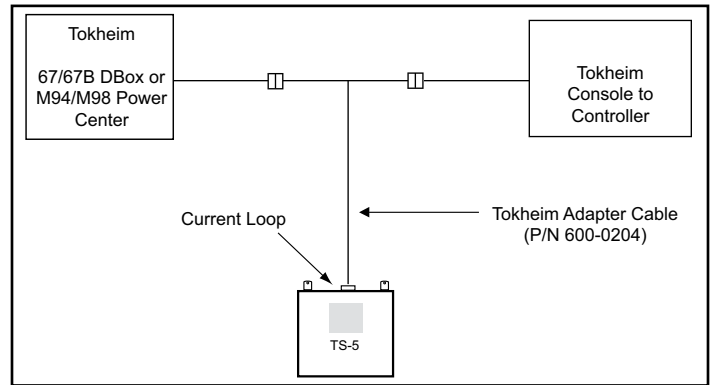


Figure 8: Connecting to Tokheim - Typical Installation

TSP-BDCBL

Contains

(1) 600-0208 Bennett Adapter Cable

1. Plug the adapter cable (p/n 600-0208) into the TS-5 series RS422/232 DIM communication port.

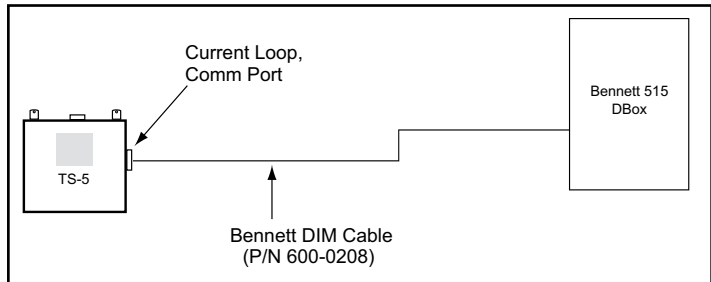


Figure 9: Connecting to Bennett 515 D-Box

2. Locate the Bennett 515 D-Box.
3. Connect the adapter cable (p/n 600-0208) into RS-232 Communication Port #3 on the Bennett 515.

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