

Thermal Printer

Model TSSP-TMPTR

Retrofit/Installation Instructions



Franklin Fueling Systems • 3760 Marsh Rd. • Madison, WI 53718 USA Tel: +1 608 838 8786 • 800 225 9787 • Fax: +1 608 838 6433 • www.franklinfueling.com

Printer Installation

The following instructions are for the addition of an internal printer or replacement of an existing printer in a T5 Series Fuel Management System.

Note: The thermal printer requires controller module firmware rev 1.5 or higher.

Included with Printer:

- Plastic Bezel
- Thermal Printer on PCB (Printed Circuit Board)
- Hardware includes:
 - (2) stand-offs
 - Mounting screws (Quantity, size and use shown in chart)



Note: Use only the provided hardware to mount the printer.

Installation Procedure

Warning

Disconnect power before opening the console cover.

- 1. Open the Tank Gauge front door.
- Remove the front door's inside cover plate by unscrewing the screws located on the plate. (Number of screws vary by model).



Figure 1: Remove Inside Cover Screws

To Retrofit a Printer in a Console Without One

- a. Remove the 4 nuts that secure the blank-off plate.
- b. Remove the plate (blank-off plate may stick to the overlay).
- c. Carefully cut out the part of the overlay that covers the printer opening using a sharp knife.Go to step 9.

3. Disconnect the cable that connects the impact printer to the interface board in the front door.



Figure 2: Disconnect Old Printer

- 4. Remove the roll of paper from the printer.
- 5. Remove the 4 screws that hold the impact printer to the front door.

Note: Be careful not to damage the ribbon cable.

- 6. Pull the printer gently and slowly a couple of inches away from the door. Completely remove the impact printer board.
- 7. Remove the 4 screws that hold the printer's plastic cover printer to the front door.



Figure 3: Remove Plastic Cover

- 8. Remove the plastic cover.
- 9. Place the new plastic bezel over the cutout in the front door. Fasten the bezel to the enclosure using the two #10 self-tapping screws supplied Start the screws in the lower two mounting holes. Do not tighten screws all the way at this time. These screws will be tightened after installing the printer assembly.
- 10. Install the 2 stand-offs on the studs located next to the printer opening (Figure 4).



Figure 4: Install Stand-offs

11. Mount the printer so that the clear printer cover faces outward of the front door.



Figure 5: Mount Printer in Door

12. Attach the 6 screws for the thermal printer board to the front door (Figure 6). Refer to the screw chart on the previous page.



Figure 6: Printer Circuit Board Installed

- 13. Connect the cable from the thermal printer board to the interface board of the front door (Figure 6).
- 14. Tighten the two screws that hold the plastic bezel by inserting a screwdriver through the access holes in the circuit board.
- 15. Check to make sure the foam pad covers the corner of the circuit board where the power cables connect.

- 16. Replace the metal inside cover plate on the front door and fasten the screws. Make sure to reattach the ground connector to the plate.
- 17. Lift up on the green panel to open the printer and load paper (Figures 7-9). Make sure the roll is oriented as shown.



Figure 7: Load Paper



Figure 8: Do NOT load paper from door, Do NOT have paper wound loosely



Figure 9: Paper Loaded Correctly

- 18. Close the printer door.
- 19. Restore power to the tank gauge.

Paper Specifications Type: Thermal Printer Paper Width: 58 mm (2.28") FFS part #: TS-TP2 (box of 5 rolls) TS-TP2C (Carton of 20 boxes = 100 rolls)

To print a test page

 Once the tank gauge is on, press the Main Menu key on the LCD with the figure of a table (Figure 10).



Figure 10: Select Main Menu

2. Press the arrow on the right side bar once.



Figure 11: Select Arrow Down

3. Press Diagnostics.



Figure 12: Select Diagnostics

4. Press Print Test Page.



Figure 13: Print Test Page

Printer Operation Notes

- On rare occasions, when printing excessively long reports at high ambient temperature, the printer may need to pause momentarily. Printing will resume automatically after a few seconds.
- An open printer door or no-paper will generate an out-ofpaper alarm.
- If you are trying to print and the paper is spooling but no text is printing, check paper roll orientation per Figure 7.
- The paper tear-bar is located at the top. Tear the paper with a lifting motion (Figure 14).



Figure 14: Tear Paper with Lifting Motion

To Setup a New Printer on a Console That Had No Printer

To physically install the printer, follow Printer Installation steps starting with step 9 on page 2.

The following steps illustrate how to program the T5 system through the computer connection when adding an internal printer. Log on to the console using a web browser interface (Refer to FMS Operator's Guide for further information).

From the System Screen, click on Setup

🔅 Franklin Fueling Systems	System Status		
feters FMS V.M. Sec.e. Prevences			Auto Rafres
Status Alarra Reports Computition Registration Diagnostic Tests About VME.			09/28/2210 89:51:4
Nuclie Type	Sut	State	Verson
AC Input Hodule	1	Operational	0.0.0
Ricky Wodde	2	Operational	0.9.3
4-20mA trave Rodule	14.	Operational	0.9.8

Select System Configuration

NCON - Garst access level					នៅថា ១៨ ។ និមិនន័យនឹង ដែល សំរើ និង
Tranklin Fueling Bystems			Setup		
System RKS VIDI Setup	Preferences				Econd Edt Combat Wast Reat
Group Name	Param	ater Rane		Parameter Value	
Captore II		-		and a second second	
System Configuration		-			
Probe Nodules		1			
4-20mA Imput Modules		-			
Fourter Supply		1			
Relay Hodules		-			
Dispanser Interfans					

Select Modules Expected

Franklin Fueling	Systems	8	tup	•			
System RAS VISI Setup	Preferences			Econd Collapse Edit Countied Uplead Reset			
Group Name	Parameter Name		Parameter Value				
System ID	3						
System Configuration	Technical Support Key Enable Log Files						
Modules Expected	·) -						
Prope moviment							
4-20mA Input Piodules							
Power Supply							
Relay Hodules							
Dispanser Interface							

A list of all potential modules will be displayed. The number next to the module represents the number of modules that should be installed. When adding any module to the system, you must increase that module number by 1.

Franklin Fueling 1	Bystems	Setup	
System HV5 VRV Setup	Preferences		Expand Colope Edit Devrived Upbad Reset
Group Name	Paramotor Name	Parameter Valu	•
System ID		141 (11)	
System Configuration	Technical Support Key Brable Log Files	3 No	
Modules Expected	10 AC Dout		

Click on the 0 next to Printer.

O Franklin Fueling 8	lystern	Setap	•
Conferentieses Save changed	8		in
Group Name	Parameter Name	Parameter Value	
System 80	 14 10 10 10 10 10 10 	· · · · · · · · · · · · · · · · · · ·	
System Configuration	Technical Support, Key Bruthe Log Flat	E . No	
Hodules Expected	20 AC busy Polic 2 virte lange 3 date 2 virte 4 - 20 Finite Enter Consele 3 Di		(a) OK - Server - Dublik
Prote Hodels			
4-20mA Browt Hodeles			
Promit Supply	*		
Ralay Hodake	+		
Disperson Interface	*		
Fiel Honogenent System			
Vision Remainly Handoing E-Hall			
E Mul	•		

Change the 0 to a 1

Tranklin Fusiing By	nterns		Setup (modified)			
Configuration: Save that part					 14	- 10
Group Name	Parameter Barne			Parameter Value		
System ID	Contraction of					
System Configuration	Termical Support Ney Enable Eag Files					
Packies Egentrel	20 AC least Relay Police 2 West Service 3 West Service 1 Wester Process LCBR Consults DTV Consults DTV	>				
Probe Modules						
4 20mA Trust Hobies						
Power Supply						
Roby Produins						
Dispenser Interface		-				
Famil Management System						
Vapor Nactowery Honitoring	-					
f Ned	- 14					
System Sentand Anystare						
Rules						

Click Yes to Save Changes

Tranklin Fusiing By	nterne		Setup (modified)	
Confirmation: Save changes?				
Gruup Name	Parameter Name		Parameter Value	
System ID	in the second strategy of	100		
Siviten Configuration		e Se		
Produies Expected	10 AC Epst	*		
	AC Equit Ruley Profes	1		
	2 Vills Scheer	:		
	+29HA Post	1		
	Product Libri DOV	8		
	DOV Exercise DTU	1		
	The state is the	7		

If prompted, enter the administrative password

C Franklin Fusiing I	Dystemia	Setup (modified)	•
Orter Ind. Mount proimpte			Passworth asses form
Confirmation: Save changes	der en		
Group Name	Fearater Nane	Parameter Value -	
System ID	P		
System Configuration	Twit-real the point Kay		

Confirm that the Printer number is now 1. The system will now "look" for an internal printer

Trankin Fueling S	iyate			Settip		•	
Germe HAS und Letus I	interio.	exter .				Geard Calere 54 Diuritat Unital Seet	
Group Name		Parameter Name			Parameter Value		
Nystem MI			100 m				
System Configuration	1	Endle Log Flee	5				
Hodules Expected		30					
Produces Expected		ACTION	1				
		Talay	1				
		Pole.	1				
		2 Web Serior	2				
		3-Wee Senate	3				
		4.70.94 20.00					
		Pretar					
		121					
		Gerome D10	2				
Probe Phalains							
4-20MA Bout Modules							
Power Supply		-					
Balay Hodeks			(B-				
Biogeneses Balantaine	•		den i				
Foel Hunagement Systam			5				
Vispor Roccurry Hospitolog		-	1900 - C				
E-Hul							
System Sentand AnyWare			44				
Ruim	+						

To Replace an Existing Thermal Printer

Warning Disconnect power before opening the console cover.

- 1. Remove the back panel shown in Figure 1.
- 2. Remove the 6 screws as shown in Figure 6.
- 3. Remove the cable connection.
- 4. If the existing plastic bezel will still be used, follow installation instructions starting with step 12 on page 3.
- 5. Print a test page to verify operation.



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

Franklin Fueling Systems GmbH Rudolf-Diesel-Strasse 20 • 54516 Wittlich, GERMANY Tel: +49-6571-105-380 • Fax: +49-6571-105-510