

LCD/EMV Heater Kit for FMU-5000

This product bulletin instructs installers on when and how to install the LCD Heater Kit (191F0238-10) or the LCD/EMV Heater Kit (191F0238-20) for FMU-5000s that are installed in very low temperatures. Near 0°F, the crystals in the LCD slow down until they eventually freeze up near -40°F. Therefore, a heater is recommended to keep the LCD/EMV Reader warm enough to function in the cold.

LCD/EMV Heater Kit Scenarios

Scenario	Kit Needed?	Kit Required
FMU-5000 is (or will be) installed at a facility that experiences temperatures below 0°F or -20°C.	✔	191F0238-10
FMU-5000 with EMV Reader is (or will be) installed at a facility that experiences temperatures below 0°F or -20°C.	✔	191F0238-20
FMU-5000 is (or will be) installed at a facility that does not experience temperatures below 0°F or -20°C	✘	N/A

NOTE

FMU-2500, 3500, and 4500 Units have a backplate heater that regulates temperatures for the entire FMU cabinet. LCD heater kits are not needed.



LCD Heater Kit Part Numbers

Part Number	Part Description	Amount
191F0238-10	The kit for LCD Heater only	1
117749	5.6" Cable Tie	4
155349	#6 Flat Stainless Washer	4
191F0236-10	FMU5000 LCD Heater Assembly	1
191M0205-30	LCD Cold Weather Heater Adapter	2
198749	.75" Square 4-Way Adhesive-Back Mount	4
252638	#6-32 x .25" Screw	4
252697	#8-32 x 3/8" Screw	1
266092	.0188" ID P-Type Cable Clamp	1
267365	3' USB-A to Right Angle USB Mini-B Cable	1
267375	.375" Hex Standoff	1

EMV Heater Kit Part Numbers (if applicable)

IMPORTANT The EMV Heater Kit uses the same parts for mounting as the LCD Heater. Additional parts included for the EMV Heater are documented below.

Part Number	Part Description	Amount
191F0238-20	The kit that includes EMV Heater and LCD Heater	1
191F0237-10	FMU5000 EMV Heater Assembly	1

Installation Steps for LCD Heater

1. Turn the FMU off.

WARNING Verify FMU has been powered down. The heaters can get dangerously hot if energized during installation.

2. Open the FMU head.
3. Locate the LCD module on the top right of the FMU door.
4. Unscrew the top row of nuts and lock washers on the LCD.
5. Insert the Heater Assembly with the heaters on the top of the LCD with its attached adapters around the pegs.

NOTE Attach the Heater Assembly to the top of the LCD to reduce interference between LCD and the Heater.

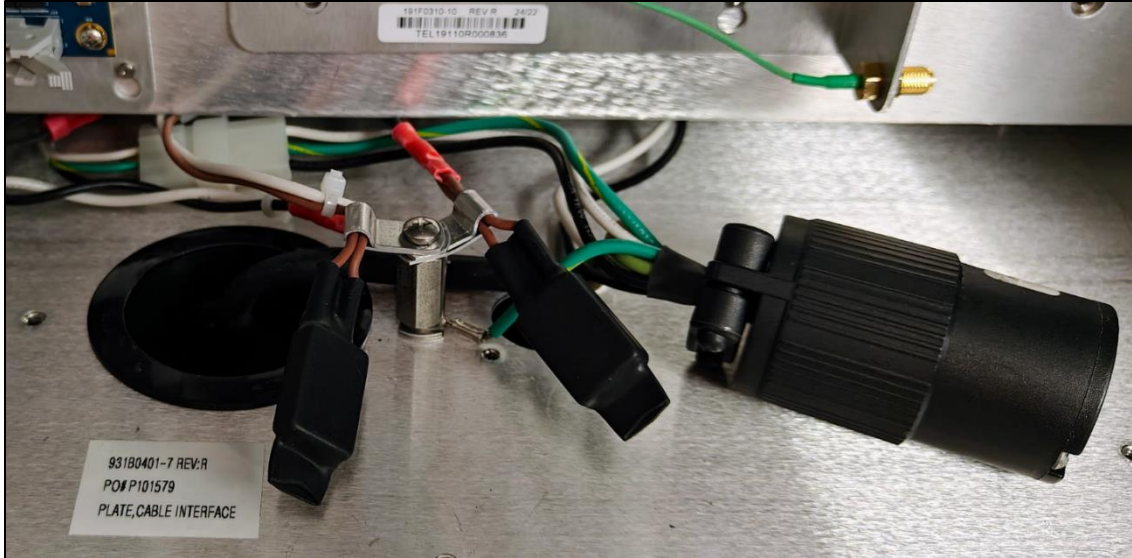
6. Reattach and tighten the top row of lock washers and nuts on the LCD.

IMPORTANT

Make sure the nuts are pressing against the lock washers and not the LCD plate. Otherwise, the nuts will become loose over time.



7. Replace the grounding lug attached to the 120V plug in the head of the unit with the Hex Standoff.
 - a. Unscrew the grounding lug.
 - b. Screw on the Hex Standoff and tighten.
8. Route the black thermistor through the P-Type Cable Clamp.
9. Attach the grounding lug, P-Type clamp, and Screw in the following order:
 - a. Grounding lug
 - b. P-Type clamp
 - c. Screw
10. Leaving yourself enough slack in the line to close the door, route the extra black-and-white cable around the back of the backplate.
11. Secure the cable to the inside of the FMU head utilizing cable ties and 4-way mounts.



12. Replace the USB-A to straight Mini-B cable with the USB-A to right-angle Mini-B.

WARNING

Failure to replace the straight mini-B cable with the right-angle Mini B cable could result in the cable melting if it is in range of the LCD heater for a prolonged period of time.

13. Connect the power connector from the LCD Heater to the spare 2-wire connector coming from the 120V plug.
14. Power the FMU on.

Installation Steps for EMV Heater

Assumptions

This tutorial assumes

- The FMU is turned off.
- The door on the FMU head is open.

WARNING Verify FMU has been powered down. The heaters can get dangerously hot if energized during installation.

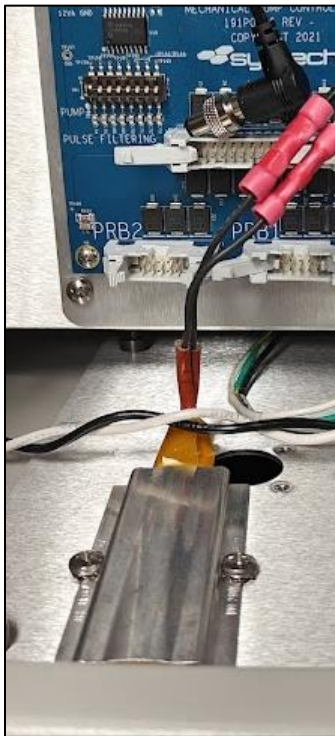
1. Locate where to mount the EMV Heater (191F0237-10) inside of the FMU head.

IMPORTANT The EMV Heater should be mounted where it will sit below the EMV Reader when the FMU door is closed.

2. Drill out two holes in the bottom of the FMU head.

IMPORTANT Installers will need to drill out holes for all units other than the FMU-5000.

3. Secure the EMV Heater to the bottom of the FMU head utilizing two screws.



IMPORTANT The Y cable that connects the EMV Heater to the LCD Heater should be sent out pre-wired.

4. Connect the power cable from the LCD Heater and the EMV Heater to the power connector running to the power conditioner.

If any questions arise, contact Syntech Systems, Inc.'s Customer Satisfaction Center (CSC) at 1-800-888-9136, ext. 2, or email support@myfuelmaster.com. 5

5. Route the black thermistor for the EMV Heater through the other side of the P-Type Cable Clamp.
6. Secure all cables to the inside of the FMU head utilizing cable ties and 4-way mounts.

