



Packaged Gas Division

Technical Service Bulletin

Trifecta® X-series Red Lion Change

Date: September 5, 2018

TSB-HPS-1022

Issue: Recently Red Lion discontinued the T1610010 temperature controller in the Trifecta control box. We are replacing it with the PXU100B0 (Chart P/N 21323109). Due to the difference between the two controllers, the wiring is slightly different.

Models Affected: All new Trifecta X-Series units. Since the electrical panels come from multiple vendors, the effective date of this change will vary slightly. New Red Lion controllers should be totally implemented by First Quarter of 2019.

Solution: This document will illustrate the difference between the two controllers and the proper way to install the new Red Lion controller.

Description: A few ways to differentiate between the two controllers is that the old Red Lion has four buttons on the face and the new model has six. (See picture below).




Previous model Red Lion controller
P/N 12942901



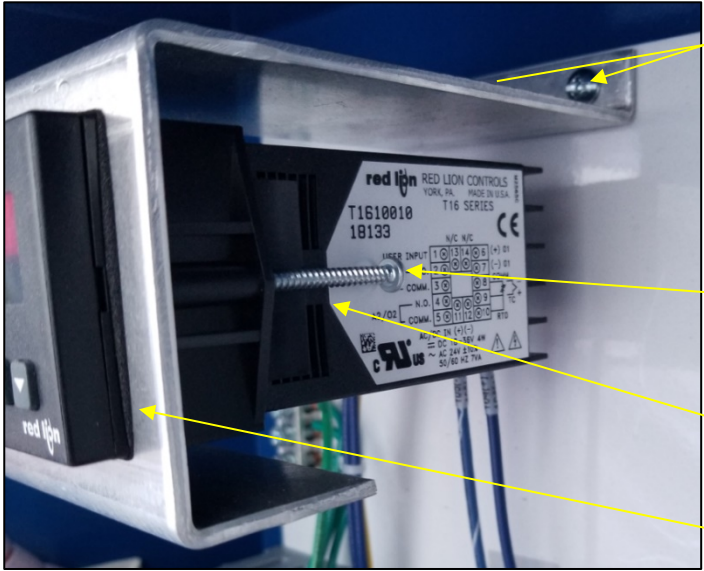
New model Red lion controller
P/N 21323109


CHART
Packaged Gas Division

Listed below are diagrams that show how to wire both versions of the controller.

 Before performing any work inside the electrical control panel, make sure the power to the panel is turned off and all components are de-energized. Follow all company/customer lock out/tag out procedures as required.

To Change out the controller:

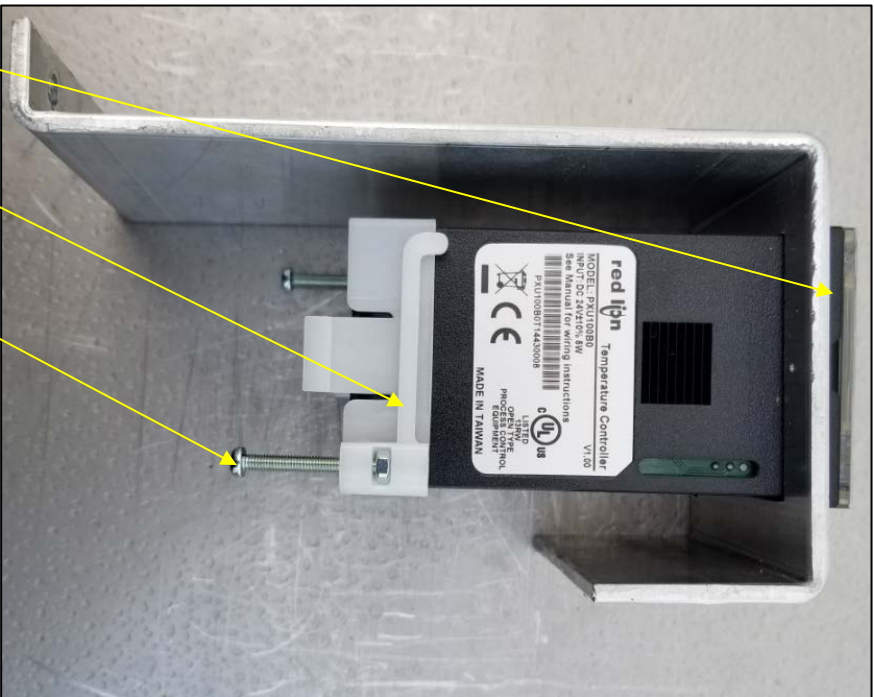


- You need to remove the two Philips head screws that hold the Red Lion bracket on.
- Remove the wires from the back of the controller.
- Loosen the two screws on the side of the controller once it is removed.
- Pry up on the plastic tabs on the side and then slide the clamp off the back.
- Slide the Red Lion controller out of the front of the bracket.

Slide the new Red Lion controller into the front of the bracket.

Slide the white clamp onto the back of the Red Lion controller until it clicks in place and is holding the Red Lion controller firmly into the front of the bracket.

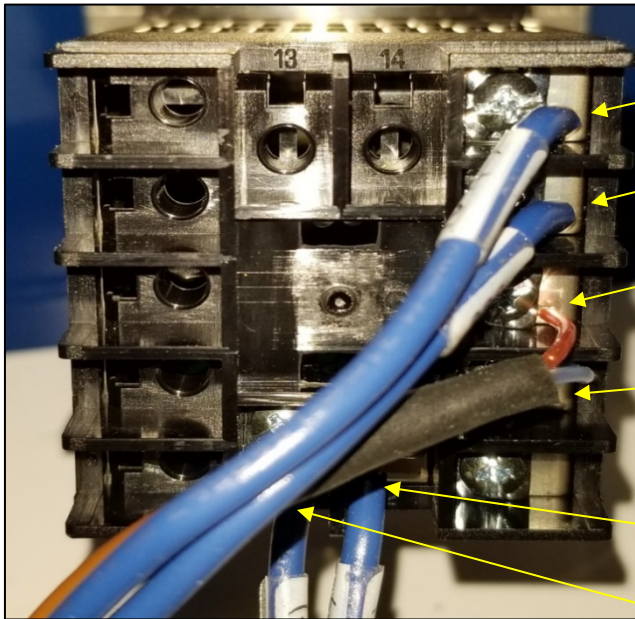
Snug up the screws on the corners.





Packaged Gas Division

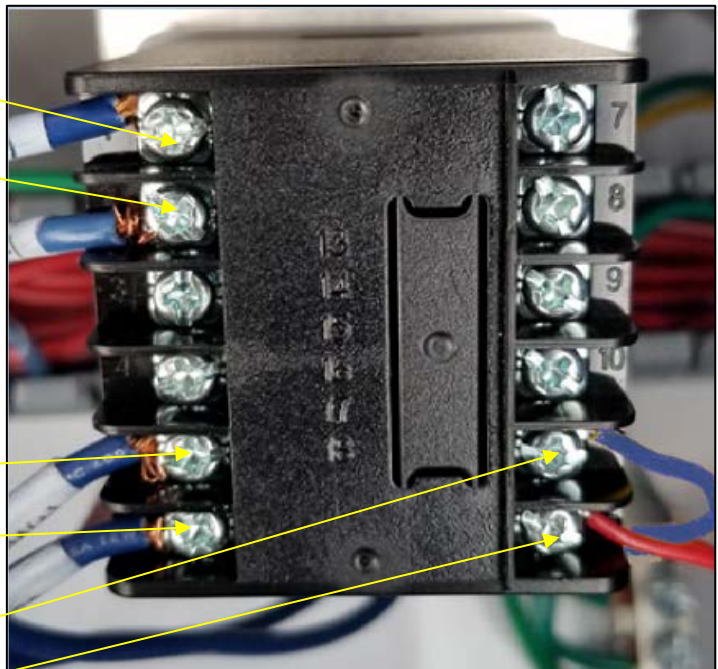
Red Lion Controller wiring



- Terminal 6 normally open Contact 24v+ (104+)
- Terminal 7 normally open Contact Signal wire (223)
- Terminal 8 (TC-) Red wire
- Terminal 9 (TC+) Blue wire (yellow on some units)
- Terminal 12 Negative wire 24V- (105-)
- Terminal 11 Power wire 24V + (104+)

New Red Lion Controller wiring

- Terminal 1 Power wire 24V + (104+)
- Terminal 2 Negative wire 24V- (105-)
- Terminal 5 normally open Contact (104+)
- Terminal 6 normally open Signal wire (223)
- Terminal 11 (TC+) Blue wire (yellow on some units)
- Terminal 12 (TC-) Red wire





Packaged Gas Division



Attach the bracket back inside the box after it is wired.

Chart Inc. continuously strives to meet customer expectations in a number of different areas. This technical service bulletin (TSB) is distributed to customers in order to communicate technical issues about our products that may need immediate attention. If you have concerns or questions relative to this TSB, please contact your Chart customer service representative at (800) 400-4683. Thank you for depending on Chart to provide your company with high-quality products and services.