



High-Pressure Systems

Technical Service Bulletin

Component Change

TSB-HPS-1007

Date: February 26, 2016

Subject: 4 Channel Analog Input Module FX2N-4AD discontinued affective 12/1/2015.

Products

Affected: This affects K-Series Trifecta control panels using a Mitsubishi PLC and 4 channel input module models FX2N-4AD or FX3U-4AD. If you have a control panel that has 4 channel input module model FX3U-4AD (current version) and the panel is operating properly, then the PLC already has the current software version. If you have a panel that currently has module FX2N-4AD then the PLC has software version 7.5. The PLC and/or software will only need to be updated in the event that the input module fails and needs replacement.

Description: Mitsubishi has discontinued analog input module FX2N-4AD as of 12/1/2015. As a result, in the event that a K series trifecta with this discontinued 4 channel input module needs a replacement, either the PLC will need replaced or the software program loaded in the Mitsubishi PLC will need to be updated. This is dependent on the model PLC installed inside the control panel and the software version that is loaded in the PLC. The program has specific logic inside it to communicate with the input module. The program is specific to the input module. Chart's software version 7.5 only communicates with the older input module model FX2N-4AD, whereas the updated software version 8.0, only communicates with input module FX3U-4AD.

Resolution: See table 1 on the following page for the necessary replacement parts depending on the scenario configuration of the Trifecta control panel.

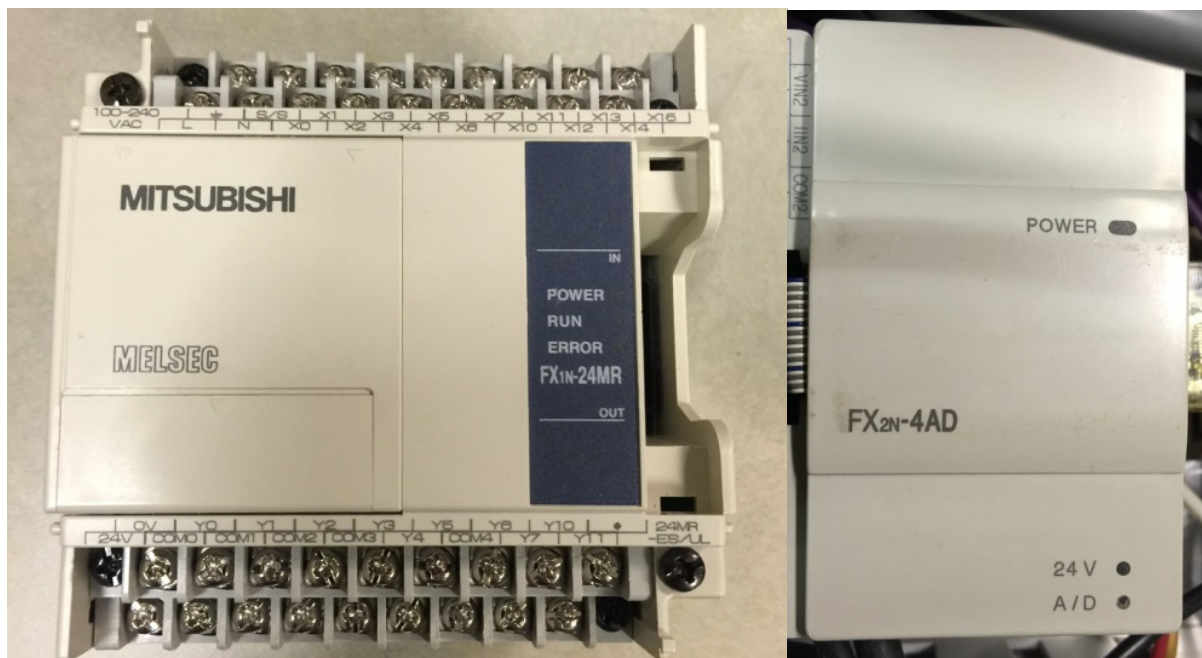
In the event that the 4 channel input module needs replacement and the PLC model FX3G-24M software only needs updating (scenario 2), this can be done with an EEPROM that will be supplied with the new input module. See the attached procedure for installing the EEPROM.

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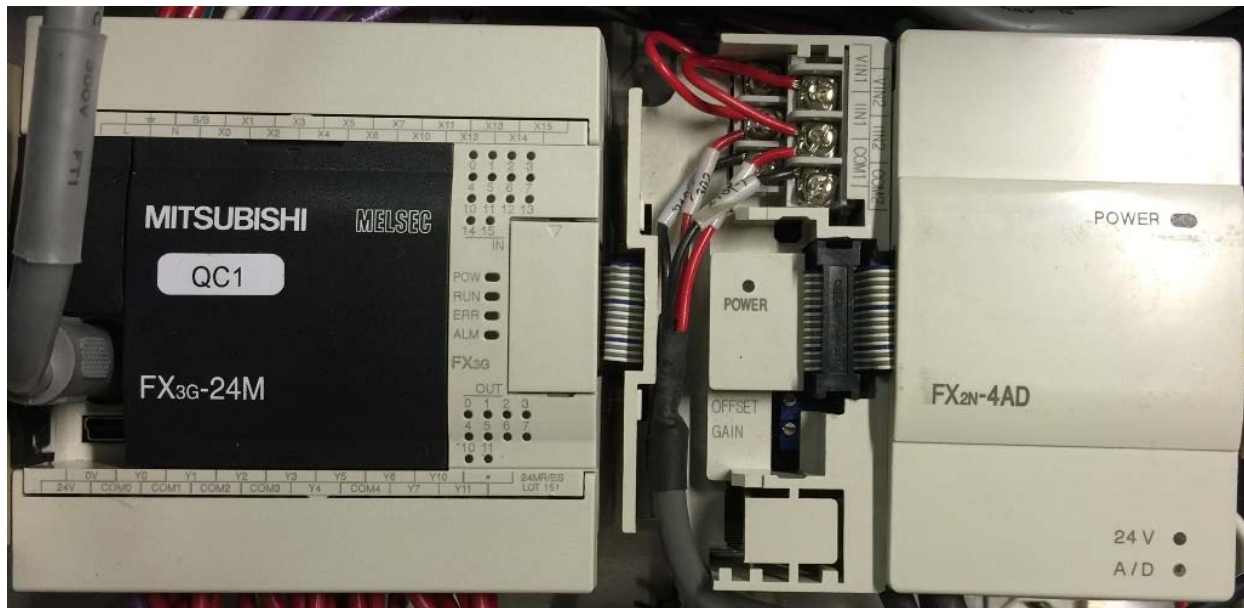
Table 1:

Scenario # (See Pictures Below)	PLC/Software	Input Card	Fitment	If PLC Replacement Is Needed	If Input Card Replacement Is Needed
1	FX1N-24MR / Version 7.5 (This PLC is obsolete)	FX2N-4AD (Obsolete)	This combination works	Replace PLC with PN 11903715	Replace input card with 20989650 AND Replace PLC with 20989646 Both devices need replacement
2	FX3G-24M / Version 7.5	FX2N-4AD (Obsolete)	This combination works	Replace PLC with PN 11903715	Replace input card with 20989650 Which includes EEPROM 20995170 Which has current software version
3	FX3G-24M / Version 8.0	FX3U-4AD	This combination works	Replace PLC with PN 20989646	Replace input card with 20989648

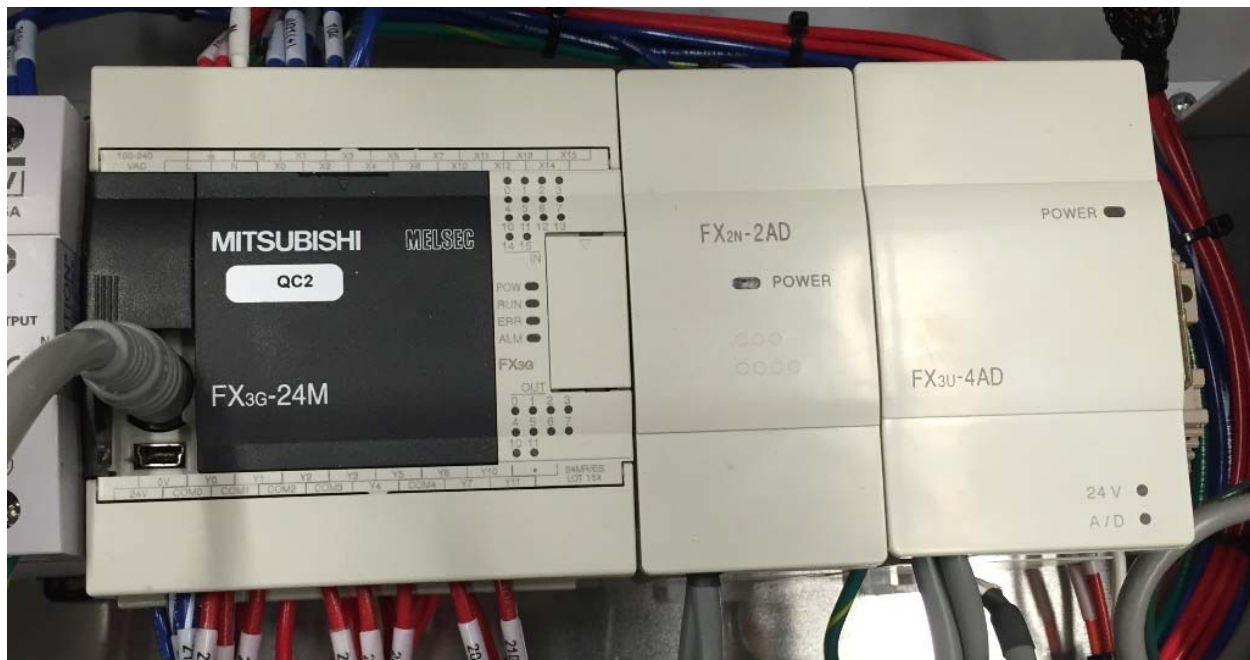
Scenario 1 – FX1N-24MR (Version 7.5) PLC & FX2N-4AD Input Card Combination:



Scenario 2 – FX3G-24M (Version 7.5) PLC & FX2N-4AD Input Card Combination:

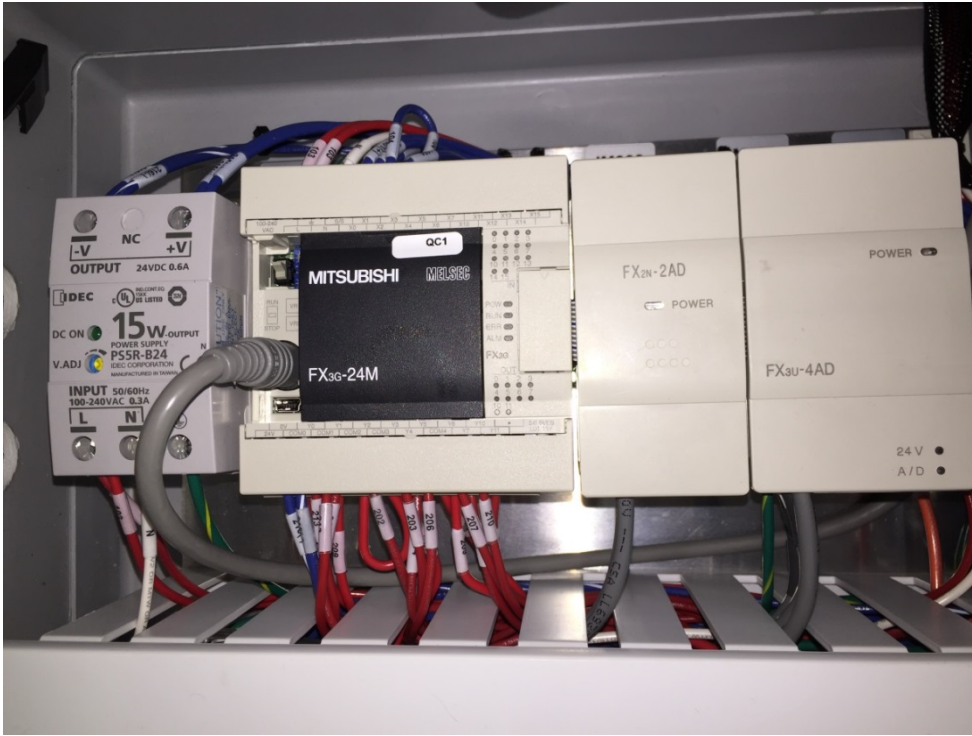


Scenario 3 - FX3G-24M (Version 8.0) PLC & FX3U-4AD Input Card Combination:

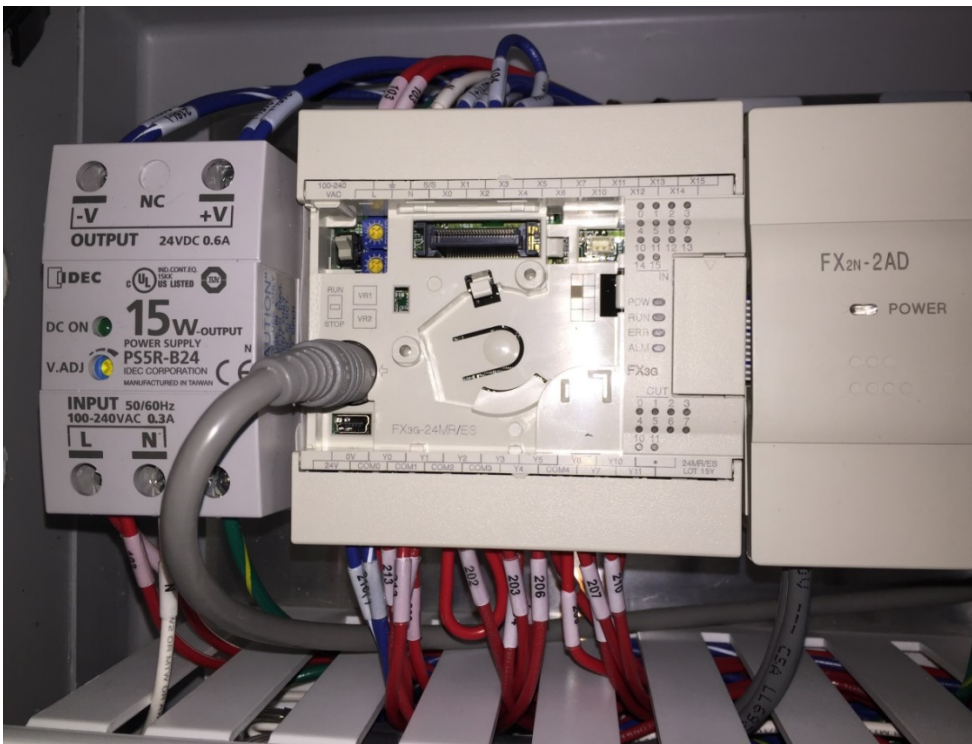


FX3G-EEPROM-32L Installation Procedure:

1. ALL POWER MUST BE OFF DURING INSTALLATION!



2. Remove cover with the Mitsubishi logo from the Mitsubishi PLC FX3G controller.



3. Remove the contents of the EEPROM package. The package contains 4 screws to attach the EEPROM, the EEPROM, EEPROM side cover and instructions.



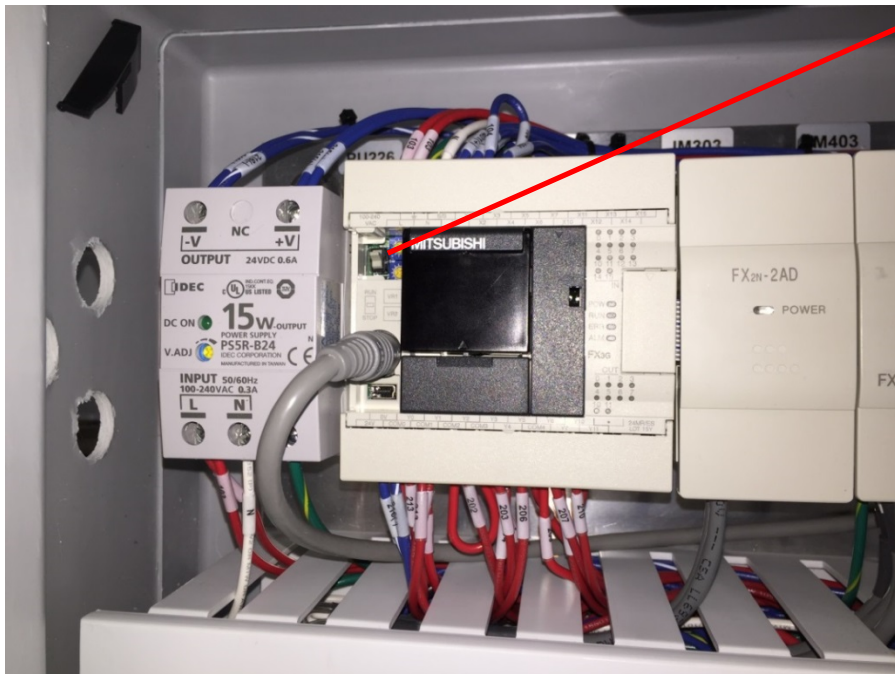
**EEPROM
Instructions**

**Screws Supplied
with EEPROM
(2 Short, 2 Long)**

Side Cover

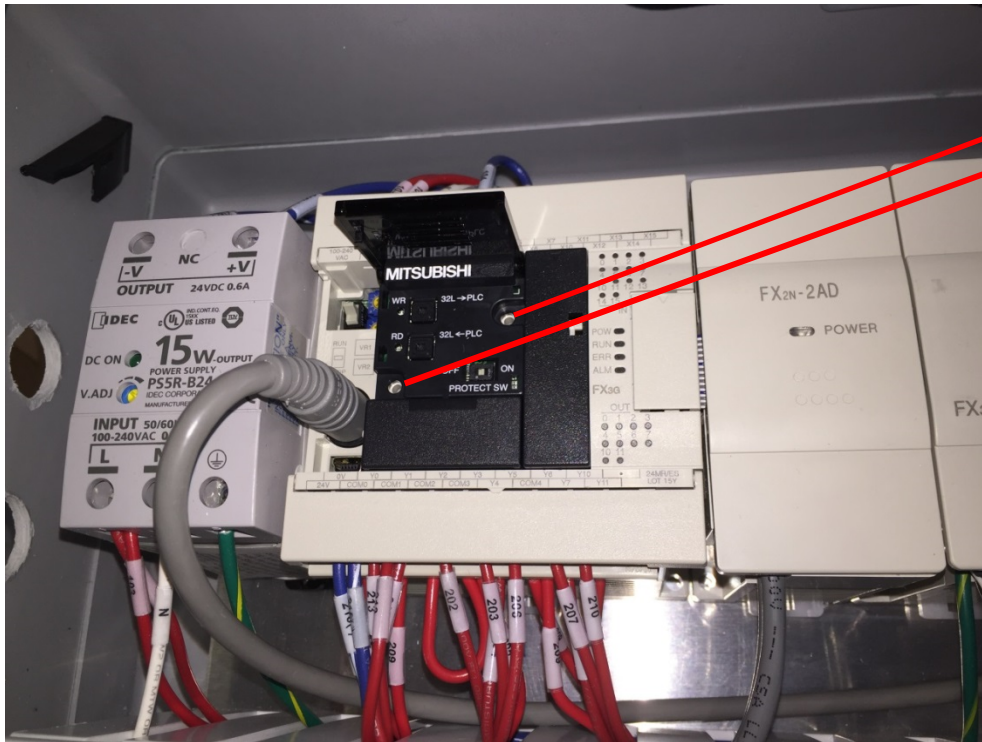
EEPROM

4. Attach the side cover supplied to the front of the PLC. Next plug the FX3G-EEPROM-32L into the small horizontal socket on the PLC. Do NOT change the switch position on the right side of the EEPROM. It should remain switched to “ON”.



**Switch – Keep in
“On” Position**

5. Attach the FX3G-EEPROM-32L with the two shorter screws supplied. Do NOT use the longer two screws, as damage to the main PLC unit may result.



6. Turn power back on. The system will now run the program on the EEPROM. To verify that the PLC is running the program on the EEPROM module, verify that “Trifecta Ver 80” is displayed on the HMI upon system startup. The system will revert back to the old program if the EEPROM is removed.
7. If it is desired to permanently load the program from the EEPROM to the PLC, carefully follow program transfer ‘WRITE TO THE PLC’ instructions on the Mitsubishi datasheet packaged with the EEPROM.

If you have any questions pertaining to this Technical Service Bulletin, please call Chart at 1-800-400-4683.