

## TYCO SAFETY PRODUCTS – FIRE DETECTION – ANZ REGION CONFIDENTIAL PRODUCT BULLETIN

### **MXP FIRMWARE V1.14 PROVIDES AUTOMATIC DETECTOR RE-ADDRESSING**

A new version (V1.14) of the firmware (downloadable software) for the MX4428VF4000 MXP provides automatic re-addressing of new replacement detectors (those set to address 255).

This allows a dirty or faulty detector to be replaced with a new detector of the same type, without the need for the 801AP service tool. This task can be carried out by the customer or any service company without the need for any special tools.

This new MXP firmware also fixes an issue with manual re-addressing of devices using the diagnostic port on the MXP. Previously, when the user was asked to confirm Y or N to proceed with the re-addressing, and never answered, the MXP would wait indefinitely for a response, leaving the normal MXP operation suspended. Now, if no operator response is given to the confirmation question, after 30 seconds N will be assumed and the MXP will resume normal operation.

This version of firmware is now available to download into the MXP. It requires no change to the fire alarm panel firmware.

#### **Introduction into production**

All MXPs manufactured or sold from the TSP Melbourne warehouse after 3<sup>rd</sup> September 2007 have been updated to firmware V1.14, so it is not necessary to reprogram any MXPs purchased after that date.

New Zealand warehouse stock will not be retrospectively updated, so the new version will flow through from factory production as existing stock sells out. If in doubt check the version number on the label of the flash IC (U2), and/or use the procedure below to field-download the new V1.14 firmware.

#### **Procedure for automatic detector re-addressing**

For the automatic re-addressing function to operate, the following conditions must be met:

- One, and only one, device on the MXP's loop must be non-responding, i.e., in the Node Fail state (e.g., the faulty detector has been removed from its base).
- This device has been isolated at the MX4428 panel.
- A replacement (brand new, i.e., has address 255) device of the same type has been connected to the loop (e.g., the new detector has been plugged into the base that the faulty detector was removed from).

Assuming these conditions have been met, the new device will then be addressed with the address of the missing device within 10 seconds, and the "NodeF" fault will clear shortly thereafter. The device can then be de-isolated at the MX4428 panel.

Follow the procedure below to replace an existing dirty or faulty device with a new one, and to have the new one automatically re-addressed with the existing device's address:

1. Check that there are no MX devices already in the Node Fail state on that MX loop (other than possibly the one being replaced).
2. Point Isolate the device to be replaced.
3. Remove the dirty/faulty device from its base, or disconnect it from the MX loop wiring.
4. Fit the new replacement device of the same type to the base, or MX loop.
5. Wait for a burst of activity on the device's LED and then for it to start flashing every 5 seconds (provided LED flashing on Poll is enabled for the MXP).
6. Return to the MX4428 and check the point status for the device. It should be Isol and not NodeF (any Dirty state may still be present).
7. Do a Reset Tracking command and a Reset History command on the point to re-initialise the detection algorithms.
8. De-isolate the point.

### **MXP Firmware Downloading and Version Checking**

Instructions for reprogramming the MXP firmware are contained in Section 8.2 of LT0273 MXP Engineering/Technical Manual. Note that there should be a label on the MXP flash IC (U2) that you will need to update to record the new firmware version number.

The required files can be downloaded from the "Fireplace" website

<http://www.tycosafetyproducts-anz.com>

You need to get the file SF0250.ZIP from the Downloads/MX4428 Bits section. This contains the MXP firmware and the programs for downloading it to the MXP.

The actual firmware version of any particular MXP can be checked by connecting a laptop/PC to the MXP (refer to LT0273 for details) and entering the HELP command. The resulting menu shows the firmware version at the top. Make sure the label on the flash IC (U2) records this firmware version correctly. (**NOTE:** Don't use the "MXR Boot ROM" version number displayed first on power up.)

With MX4428 panel firmware V3.12 onwards you can also use the DG/DA/VR diagnostics command to view the responder's firmware version number. An MXP with V1.14 firmware will reply with \$CE (206).