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## FR-320 Firmware Upgrade (ECO-08-48)

The FR-320 firmware has been upgraded from **version 1.0.17** to **version 1.1.3**. The following are the changes and enhancements that were made:

- The telephone line DC voltage supervision time has been increased to improve the line supervision and prevent false trouble reporting.
- Increased the receive gain of the dialer to improve the Kiss-Off tone detect.
- The Kiss-Off detect waiting period was increased on the Contact ID protocol to prevent the dialer from missing the Kiss-Off tone from the receiver.
- Changed the LCD description on the dialer from "Waiting for ACKtone" to "Waiting handshake"
- The common trouble relay operation has been made more consistent during start-up and to wait for AC delay before operating.
- The LED's on the panel now turn completely off; on the previous version the LED's would be on very dimly when they should have been off.
- Fixed the problem that the dialer would keep on seizing the telephone line to report the 24 hour test even after all the retries has been used and both accounts have failed to report.
- Changed the settings of the power loss trouble delay in the panel configuration menu from 0/8/18 hours to 0/1/2/3/4 hours.

The new firmware can be programmed into existing systems using the MSW-017 Firmware Upgrade Utility Program version 1.0.3.

The new firmware file is available on the Mircom website [www.mircom.com](http://www.mircom.com) ESD section.

If you have any questions or concerns, please contact the Technical Support Department.