

# Technical Service Bulletin

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**TSB # 24**

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Per ECR # 5400

Product(s) affected:

Synthesized Up/Down Converters with Model Number UCSO-103-2 and DCSO-105-2 with firmware version 1.02 or earlier

Description of problem:

In Synthesized Converters running firmware version 1.02 or earlier, there are two problems:

- 1) After a power-up or reset, and after a Reference Module Unlock condition is detected once, a fault will not be reported if this condition occurs again, until the next time a power-up or reset occurs. Under these conditions, if the Reference Module unlocks, it always still switches to internal operation as it is supposed to, but no fault is reported.
- 2) If a Reference Module Unlock condition occurs, and the Reference Mode is changed to INTERNAL, and then the micro-processor is RESET, an illegitimate Reference Module Unlock fault will be reported after the RESET, even though the Reference Mode is INTERNAL.

Design change to resolve problem:

Firmware version 1.04 has been released to fix these problems.

Instructions for modification:

The problem should be fixed by loading firmware version 1.04 or higher into all affected units.

Units that must be modified:

Synthesized Up/Down Converters with Model Number UCSO-103-2 and DCSO-105-2 with firmware version 1.02 or earlier.

Units that do not need to be modified:

Units with firmware version 1.04 or higher.

Cognizant Engineer:

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Date:

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