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M1 984LL Executive Upgrade to Version 2.02

Version 1.0



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Bi-Directional I/O Base Modules and M1 984LL Executive Version 2.02

When you upgrade to M1 984LL Exec. ver. 2.02, you should be aware that there are three bi-directional I/O base modules whose inputs will respond differently than previous modules *to a field side fault*. This Executive change was made to maintain compatibility with current network adapters.

The three I/O base modules affected are:

- 170 ADM 350 10
- 170 ADM 350 11
- 170 ADM 370 10

Field Side Fault When These Modules Are Attached To The Following M1 Processors:

171CCS70000 M1 Processor

171CCS70010 M1 Processor

171CCS76000 M1 Processor

171CCC76010 M1 Processor

171CCS78000 M1 Processor

171CCC78010 M1 Processor

With M1 Executive versions 2.01 or less

If a field side output fault occurs, the module status bit will be set to zero and inputs on the base will be read as zeros. Non faulted outputs will continue to function as determined by user logic.

With M1 Executive version 2.02

If a field side output fault occurs, the module status bit does not change and inputs will be read normally, as determined by field input signals. Non-faulted outputs will continue to function as determined by user logic.

Field Side Fault When These Modules Are Attached To a 170 INT 110 00 on an M1 I/O Bus Network:

With M1 Executive versions 2.01 or less

If a field side output fault occurs, the module's status bit will be set to zero and inputs on the base will be read as zeros, regardless of whether the module was I/O mapped as a generic Interbus S name (ie. IOBUS-0233) or a Momentum module name (ie. ADM-390-10). Non-faulted outputs will continue to function as determined by user logic.

With M1 Executive version 2.02

If a field side output fault occurs, the module's status bit will be set to zero and inputs on the base will be read as zero, if the module is I/O mapped as its generic Interbus S name (ie. IOBUS-0233). Non-faulted outputs will continue to function as determined by user logic.

If a field side output fault occurs, the module's status bit will not change and inputs will be read normally, as determined by field input signals, if the module is I/O mapped as its Momentum module name (ie. ADM-370-10). Non-faulted outputs will continue to function as determined by user logic.

I/O Bus Network and M1 984LL Executive Version 2.02

M1 984LL Exec. ver. 2.02 allows error monitoring of the I/O Bus Network, from an M1 processor.

In the event of a fault in the IO Bus Network, Word 4 of the Status Block:

- Contains the number of the node where the problem is located
- The type of I/O Bus failure

This information is available as long as the PLC is in RUN mode. The IO Bus will not function, but the PLC will repeatedly try to communicate to the I/O Bus until the problem is resolved.

The type of I/O Bus failure, determined by the Most Significant Bit (MSB) is:

- If the MSB is set to one, the failed module is not properly IO mapped.
- If the MSB is set to zero, the failed module is not communicating in the I/O Bus Network.

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