

IC693DNS201
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Series 90-30
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DeviceNet Slave Module IC693D IC693DN IC693DNS

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- **Get/Set PLC Registers:** The IC693DNS201 DeviceNet Slave Module supports the same Get PLC Registers and Set PLC Registers services as the HE693DNT750 module.
- **Fault Reporting:** Fault reporting in the IC693DNS201 can be disabled to match the behavior of the HE693DNT750.
- **Serial Port Functionality:** The RS-485 port on the HE693DNT750 is used to supply configuration information to the module prior to PLC rack configuration. The RS-232 port on the IC693DNS201 DeviceNet Slave Module is used for firmware upgrades.

Fixed for This Release

A DeviceNet bus may have power supplied externally. If this external power to the bus was turned off, earlier versions of the DeviceNet Master Module did not reestablish communications with devices on the bus when the external power was reapplied. To restore communications, it was necessary to cycle power to the PLC.

Upgrading both the DeviceNet Master Module and the DeviceNet Slave Module to firmware release 1.18 resolves this problem.

Restrictions and Open Problems

1. A brownout condition on bus power may cause a slave to time out while waiting for communications from the master.

Recommendation: increasing the device acknowledge timeout to 5 seconds may help in the case of a single brownout. If there are multiple back-to-back brownouts, it may be necessary to completely cycle bus power to reinitialize both master and slave modules.
2. The DeviceNet Master module logs a fault in the IO fault table that displays as “Module Fault – eeprom fault”. This fault should be “Runtime Error” as described in Chapter 5, section “Faults Reported to the I/O Fault Table” of GFK-2196.
3. The reply data from a Get Module Header CommReq may indicate old status error code : Main = 4, Additional = 0x13, even when the system is running correctly.
4. The slave module’s IDLE bits in the Server Status Word are not updating.

Recommendation: To accurately check the server idle state, use a Commreq to read the server status.
5. If an odd number of bytes is sent to a Series 90-30 DeviceNet Slave IC693DNS201 in an explicit message for placement into a word oriented memory, the upper byte of the last word has random data placed in it.

Recommendation: The application should mask off the upper byte of the incoming data in this circumstance.