



ETH-200 Version Info

▶ **V1.130 (11.28.2007)**

RFU Info

- Must use RFU version 2.45 or later.

Filesystem Info

- If migrating from V1.100 - V1.120 firmware, no configuration information will be affected. If migrating from pre-V1.100 firmware, and configuration settings are to be retained, then you must first download (Xmodem) a configuration file to your computer prior to updating the firmware, and then upload this configuration file to the gateway once again after the firmware update is complete.

Firmware Changes

- Corrected a bug in the Xmodem configuration file upload procedure which failed to properly process received files that were originally created from firmware versions V1.000 – V1.020.

Significant Manual Changes

- None

▶ **V1.120 (10.29.2007)**

RFU Info

- Must use RFU version 2.45 or later.

Filesystem Info

- If migrating from V1.100 or V1.110 firmware, no configuration information will be affected. If migrating from pre-V1.100 firmware, and configuration settings are to be retained, then you must first download (Xmodem) a configuration file to your computer prior to updating the firmware, and then upload this configuration file to the gateway once again after the firmware update is complete.

Firmware Changes

- Add support for “read input status” (function code 02) and “read input registers” (function code 04) to Modbus RTU slave and Modbus TCP server drivers. FC 02 will access the same data as coils (i.e. bits in registers), and FC 04 will access the same data as holding registers.
- Corrected a bug in the Xmodem configuration file upload procedure which could result in some files not being properly received by the gateway, and the factory default configuration being loaded.

Significant Manual Changes

- Because point data is now equally accessible on a register-wise basis as both holding (4X) and input (3X) registers, reworded Modbus sections that referred specifically to “holding registers” as just “registers”. Similarly, because point data is now equally accessible on a bit-wise basis as both coils (0X) and discrete inputs (1X), reworded sections that referred specifically to “coils” to now include “discrete inputs”.

▶ **V1.110 (01.11.2007)**

RFU Info



- Must use RFU version 2.45 or later.

Filesystem Info

- If migrating from V1.100 firmware, no configuration information will be affected. If migrating from pre-V1.100 firmware, and configuration settings are to be retained, then you must first download (Xmodem) a configuration file to your computer prior to updating the firmware, and then upload this configuration file to the gateway once again after the firmware update is complete.

Firmware Changes

- Toshiba G3 driver: added new parameter 0x025 (output current in amps).
- Modbus RTU slave driver: added support for Diagnostics (function code 8), subfunction 0.
- Corrected a bug in the Macromedia Flash (web browser) interface in which incorrect RS485 protocol selections were displayed under certain circumstances.
- Toshiba RS485 driver: increased packet transmission delay to reflect a modification in the communication specification of the AS1/G9 drive.

Significant Manual Changes

- Corrected several Toshiba G3 ASD command word & status word bit definitions, and added parameter 0x025.

▶ **V1.100 (03.30.2006)**

RFU Info

- Must use RFU version 2.45 or later.

Filesystem Info

- Updating to V1.100 from any previous version requires that the filesystem be reformatted. This action results in complete loss of all user configuration data stored in the filesystem. In order to retain any existing user configuration, be sure to download the configuration file to a PC via Xmodem BEFORE updating the firmware to V1.100. After the firmware update has been completed, then, the configuration file can then be uploaded again to the gateway via Xmodem to restore the original configuration.

Firmware Changes

- Added Support for Toshiba RS485 communications. This required the addition of a new point attribute "Toshiba Address" that is used by the Toshiba RS485 protocol to determine which ASD to target.
- Added new point selections which allow the user to select what Modbus master command the gateway will use for reading and writing. Reads can target holding registers or input registers, while writes to holding registers can use either the "write single register" or "write multiple registers" command.

Significant Manual Changes

- Added section 16.4 detailing Toshiba RS485 ASD protocol driver.
- Modified web server explanation to match protocol-specific access changes in point attribute box.

▶ **V1.030 (06.09.2005)**

RFU Info

- Must use RFU version 2.45 or later.



Filesystem Info

- Updating to V1.030 from any previous version requires that the filesystem be reformatted. This action results in complete loss of all user configuration data stored in the filesystem. In order to retain any existing user configuration, be sure to download the configuration file to your PC via Xmodem **BEFORE** updating the firmware to V1.030. After the firmware update has been completed, then, the original configuration file can then be uploaded again to the gateway via Xmodem to restore the original configuration.

Firmware Changes

- Added support for Toshiba (<http://www.tic.toshiba.com>) 3-series ASDs via the gateway's RS232 port. On the configuration web page, the G3 parameters are entered into the "Toshiba ASD" portion of the point entry box, which is the same location used for Toshiba drives which communicate via the gateway's common serial ports.
- Added support for Mitsubishi (<http://www.meau.com>) 500- and 700-series ASDs via the gateway's RS485 ports. This also includes support for MGI Technologies, Inc. (<http://www.mgitech.com>) ASDs that communicate via the Mitsubishi protocol.

Significant Manual Changes

- Added section 16.4 detailing the Mitsubishi ASD protocol driver.
- Added section 16.5 detailing the Toshiba 3-series ASD driver.

▶ **V1.020 (03.08.2005)**

RFU Info

- Must use RFU version 2.45 or later.

Filesystem Info

- Updating to V1.020 from any previous version does not modify the filesystem. All user configuration data will remain intact after the update.

Firmware Changes

- Removed the scantask watchdog to prevent nuisance unit reboots when a master driver's timeout time is set to 10s or larger.
- Fixed an issue that appears only on AB -Logix systems. When a connection times out (i.e. if you remove the Ethernet cable), -Logix processors were not able to reconnect to the unit. The reason is that -Logix systems use the same connection serial number at all times to attempt to reconnect to the unit. This was causing the ETH-200 to generate a "duplicate connection" error. Timed-out connections are now exempt from duplicate connection comparisons, so they are free to be reallocated with the same connection serial number.
- The RS232 port can now be used as a control protocol port when DIP switch #2 is ON at startup. Note that when DIP switch #2 is on, the entire console task is disabled, which also prohibits connection to the Telnet console.

Significant Manual Changes

- Added section 3.1 detailing the available mounting methods.
- Added section 10 detailing auxiliary power supply specifications.

▶ **V1.010 (01.24.2005)**

RFU Info



- Must use RFU version 2.45 or later.

Filesystem Info

- Updating to V1.010 from V1.000 does not modify the filesystem. All user configuration data will remain intact after the update.

Firmware Changes

- Added support for multicast transport in the target-to-originator direction.
- TTL is set to 1 on multicast packets (ref. EIP interim scoping strategy).
- The run/idle header (32 bits) is now required in the originator-to-target direction. When using an originator that does not support a run/idle header, just send dummy data as the 1st two words, as the ETH-200 ignores the run/idle header contents. The ETH-200 does not send a run/idle header in the target-to-originator direction.

Significant Manual Changes

- None

▶ **V1.000 (12.16.2004)**

- Initial release.