

Technical Note

Configuring Mitsubishi FX3U PLC for ThingWorx[®] Kepware[®] Server

The FX3U PLC needs to be configured to communicate with ThingWorx Kepware Server (and the Mitsubishi suite of drivers offered by Kepware) through the MELSOFT Series GX Works2.

To configure the FX3U PLC through MELSOFT Series GX Works2, follow the steps below:

1. Launch the GX Works2 software application.
2. From the Navigation pane, go to **Project | Parameter | PLC Parameter**.
3. Access the **PLC System(2)** tab, and enable **Operate Communication Setting**.
4. Set the parameters per the table below. Once entered, select **End** to save.

Protocol	Dedicated protocol
Data length	7bit
H/W type	Regular / RS-232C
Parity	Odd
Control mode	Invalid
Stop bit	1bit
Sum check	Enabled
Transmission speed	9600 bps
Transmission control procedure	Form1 (without CR,LF)
Header	Disable
Station number setting	00H
Terminator	Disable
Time out judge time	1 x 10ms

5. From the Navigation pane, go to **Online | Write to PLC**.
6. Select **Clear PLC Memory**.

- 💡 *It is important to clear the PLC memory before writing the new settings to the PLC. If the PLC memory isn't cleared, the new settings will not take effect.*
- 7. Select **Execute** to write these settings to the PLC.
- 8. Cycle the power on the PLC so it is ready to communicate with ThingWorx Kepware Server.
- 9. Run ThingWorx Kepware Server and create a channel for Mitsubishi FX Net.
- 10. Configure the channel and device properties to communicate with the PLC with the parameters from step 4.