APPLICATION NOTE



Title: Connecting a Pro-face HMI to an MPiec Controller Using EtherNet/IP

Product(s): MP3200iec, MP2300iec, MP2600iec,

MP3300iec, MotionWorks IEC

Doc. No. AN.MPIEC.14

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Application Overview

This application note describes the steps that must be taken to connect a Pro-face HMI to a Yaskawa MPiec controller. More information for these systems can be found at the following links.

Pro-face devices: http://global.pro-face.com/product/hmi/index.html

Yaskawa Controllers: http://www.yaskawa.com/iec



Required Components

Controller	Yaskawa MPiec Controller Series
Controller Software	MotionWorks IEC Pro v2.0.5.78
НМІ	Pro-face HMI AGP3000 to present with EtherNet/IP Port
HMI Driver	ODVA*
HMI Software	GP-Pro EX v4.04

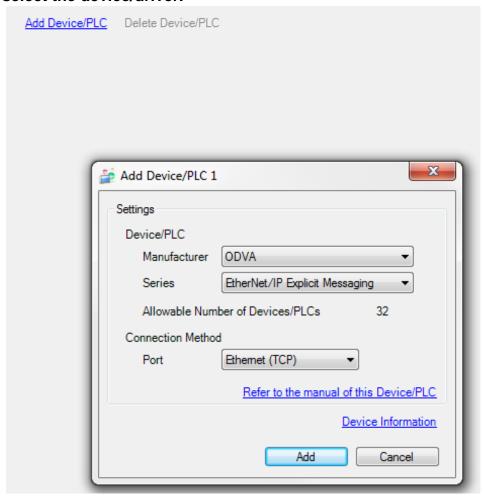
^{*}Note: This driver can be updated if an older version is present.



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1. Launch the Pro-face software, GP-Pro EX and click on "Add Device/PLC" to select the device/driver.

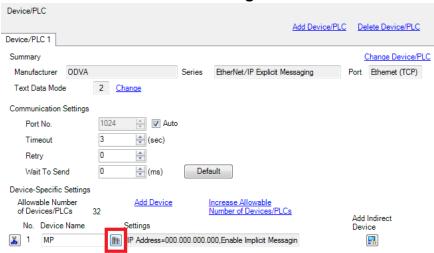




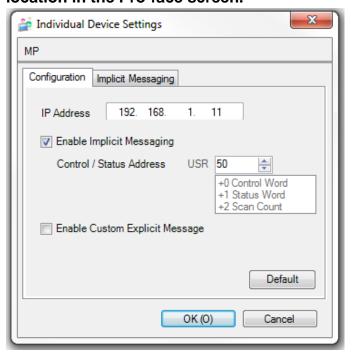
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2. Press the button shown to configure the device.



3. Set the IP address of the MPiec controller, Select the checkbox for "Enable Implicit Messaging", and select a USR memory location for the Control Word, Status Word, and Scan Count. Note: USR is an internal memory location in the Pro-face screen.

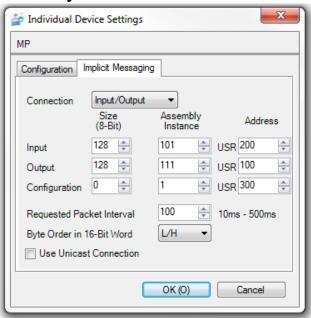




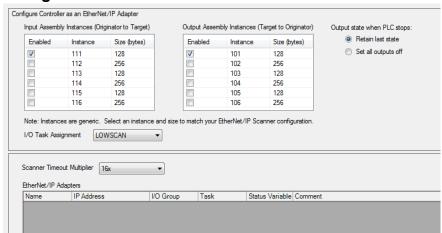
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4. Configure the Implicit Messaging Size, Assembly Instance, and Address. The USR is where the data will be automatically read and written. This example reflects the MPiec adapter Assembly Instances; however other Assembly Instances could be used.



5. In the Hardware Configuration, click on the checkbox to Enable the MPiec controller as an EtherNet/IP Adapter. In this case the Pro-face HMI is configured as the E/IP Scanner.





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6. Note: the Pro-face driver setup assigned a memory location for the Control Word. If the Control Word has a value of zero, the Implicit Messaging function will be disabled. To enable the Implicit Messaging, this control word must be set to 1.

