

MYCOM



MYPRO TOUCH

Compressor Package Control System



MAYEKAWA

PREFACE

While installing and mounting The MYPRO TOUCH Type-S, check the following points:

A. Is the MYPRO TOUCH Type-S factory-option variation specified? MYPRO TOUCH Type-S is available in 6 factory-option variations:

The format for specification is;

MT-101-11-1-1-S

Main Digital Output & Input Board (Always 1)

Expansion Digital Output Cards (Varies from 0 to 3)

Expansion Digital Output and Input Card (Varies from 0 to 1)

Analog Input Card (Varies from 1 to 2)

Analog Output Card (Varies from 0 to 1)

Voltage Rating (Varies from **1**: AC100~120, **2**:AC220~240, **3**: OTHER)

NEMA Rating (Varies from **1**: NEMA 1, **2**: NEMA 4, **X**: NEMA 4X)

Type (Varies from **S**: Standard, **Z**: Zpurge, **C**: Custom)

B. Are all necessary items supplied?

Check the items in the package against the packaging list. The standard version MYPRO TOUCH Type-S should be provided with a set of the following items: CPU chassis kits (CPU board; 2 analog input boards; digital input/output board; CPU-AD harness; AD-AD harness; CPU-digital input/output harness; power harness) Touch panel (12.1") 16 Analog input connectors 16 Digital input/output connectors.

C. Are the settings in the following screens correct?

Be sure to confirm the following settings in the corresponding screens before putting MYPRO TOUCH into service. System Configuration: Are the settings for each item appropriate for the compressor unit. Analog Input Scaling: Is the scaling setting for each sensor correct? Alarm/Failure LIMITS: Are the settings for each alarm appropriate?

NOTE: Base panel will be built and distributed by Mayekawa USA

CONNECTING POWER TO THE MYPRO TOUCH

Connect Power:
hot (black) wire to X1 for 110~120V | L1 for 220~240V



Neutral (white) wire to X2 for 110~120V
| L2 for 220~240V

Ground (green) wire to
GND



WARNING

RISK OF SHORT CIRCUIT, FIRE, OR UNWANTED DEVICE OPERATION.

- DO NOT USE A LIVE-LINE AT THE MOMENT OF THE POWER SUPPLY CONNECTION.
- DO NOT APPLY EXCESSIVE FORCE TO THE POWER SUPPLY CABLE TO AVOID DAMAGE TO CABLE OR UNWANTED DISCONNECTION.
- ENSURE POWER SUPPLY CABLE TO TOUCH PANEL IS FIRMLY CONNECTED.
- TERMINALS IN POWER SUPPLY TERMINAL BLOCK SHOULD BE TIGHTENED USING PROPER TORQUE (1.4 Nm).
- MOUNT PANEL SECURELY PRIOR TO CONNECTING THE CONTROL POWER (MAIN POWER SUPPLY).

FAILURE TO FOLLOW ABOVE INSTRUCTIONS CAN RESULT IN DEATH, SERIOUS INJURY OR PROPERTY DAMAGE.



WARNING

RISK OF SHORT CIRCUIT, FIRE, OR UNWANTED DEVICE OPERATION.

1. DO NOT USE COMMON GROUND. DOING SO MAY CAUSE ACCIDENTS AND EQUIPMENT FAILURE.
2. USE DEDICATED GROUND FOR YOUR DEVICES.

FAILURE TO FOLLOW ABOVE INSTRUCTIONS CAN RESULT IN DEATH, SERIOUS INJURY OR PROPERTY DAMAGE. **NOTE: See troubleshooting manual for important power supply information.**

CONNECT MYPRO TOUCH TO NETWORK

NOTE: TO BE ABLE TO PERFORM ANY COMMUNICATION WITH THE MYPRO TOUCH PANEL VIA ETHERNET CONNECTIVITY THE FOLLOWING STEPS MUST BE PERFORMED. IF YOU DO NOT KNOW WHAT IP ADDRESS TO USE FOR YOUR PANEL PLEASE CONTACT YOUR NETWORK ADMINISTRATOR OR IT DEPARTMENT.

WARNING: MAKING UNNECESSARY CHANGES IN THE OFFLINE MENU MAY ALTER IMPORTANT SETTINGS OF YOUR HMI THAT MAY DISABLE OR CORRUPT FEATURES OF THE HMI PANEL. FOR A LIST OF THE ITEMS THAT SHOULD NOT BE ALTERED PLEASE VISIT THE MYPRO TOUCH OFFLINE MANUAL.

1. Connect Ethernet cable to MYPRO Touch as shown in Figure 1.

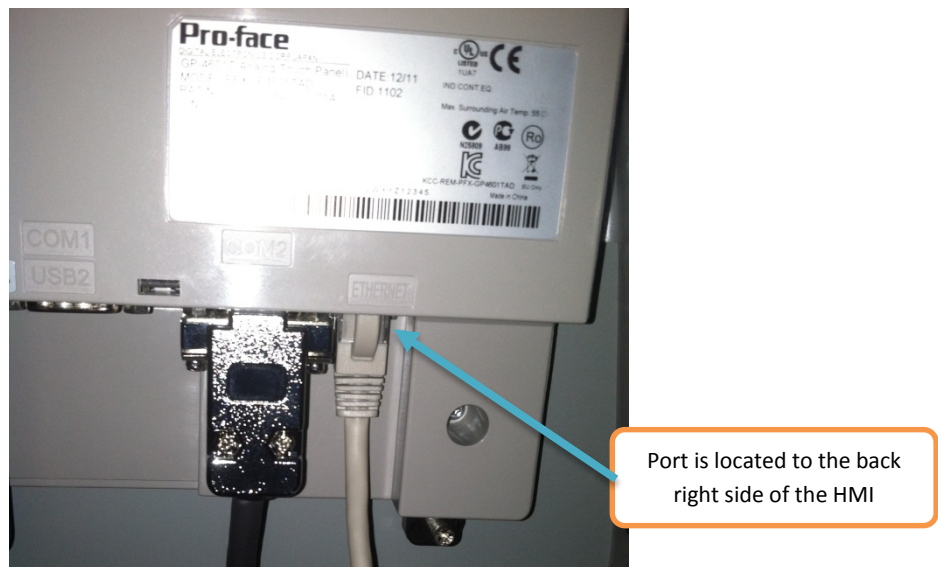


Figure 1: Connecting Ethernet Cable

2. Access the SYSTEM MENU by touching the corners of the touch screen as shown in Figure 2.

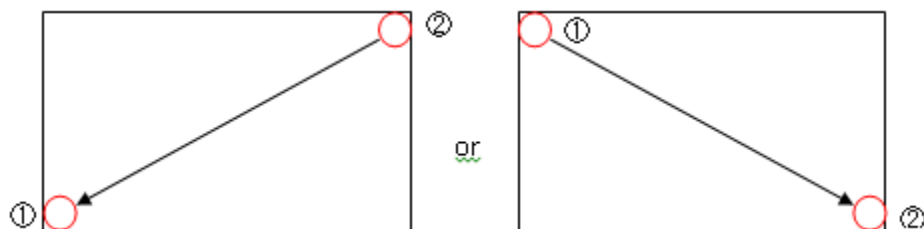


Figure 2: Bringing Up the System Menu

2 a) Touch one corner release then touch the other corner within 0.5 seconds of each touch.

3. When the following system menu appears, touch [OFFLINE] button as shown in Figure 3.



Figure 3: System Menu

4. The panel will reboot. When prompted for a password, enter 1313 to go to the offline mode.

5. Once the panel boots into offline mode, the following screen will appear. If language is in Japanese change to English via the dropdown menu under OFFLINE LANGUAGE: (Figure 4)

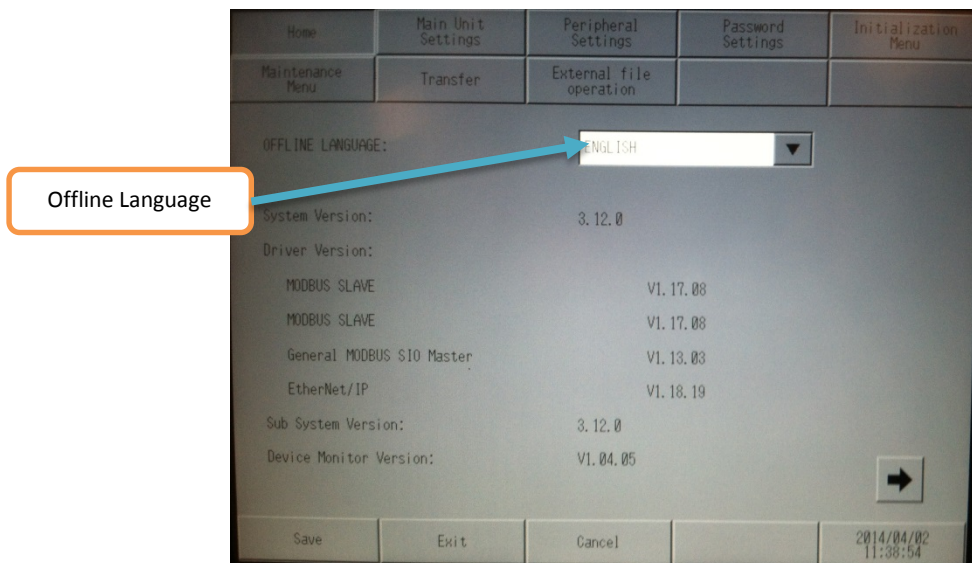


Figure 4: System Configuration Window

6. Touch [Main Unit Settings] on the top menu banner.

6 a) Once the settings selection buttons appear, touch [Ethernet Local Settings] to set the MYPRO Touch IP address as shown Figure 5.

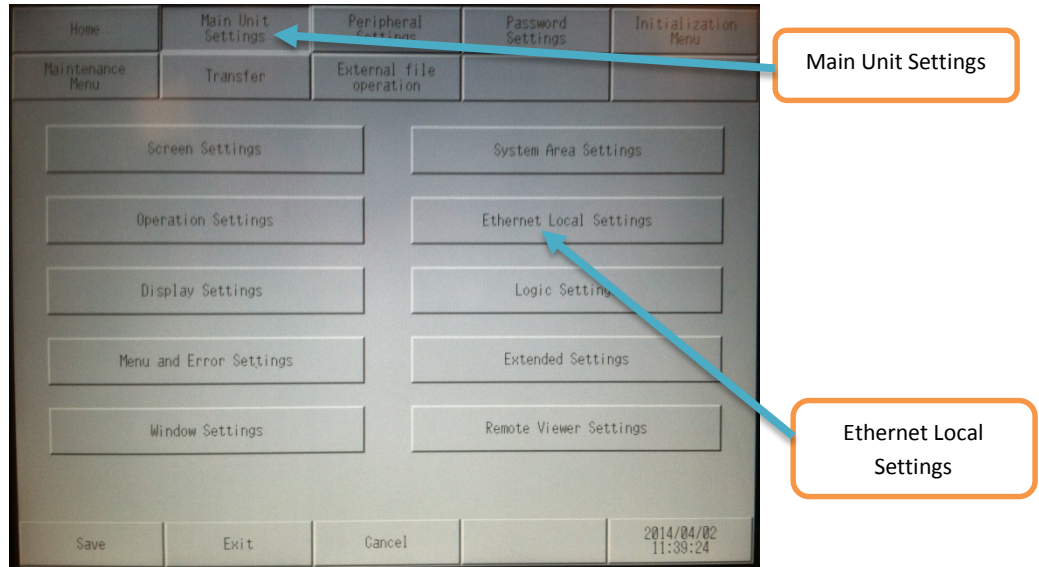


Figure 5: Ethernet Local Settings

7. On the [Ethernet Local Settings] screen configure the IP address settings for the MYPRO Touch panel as it is provided by your network administrator or IT department.

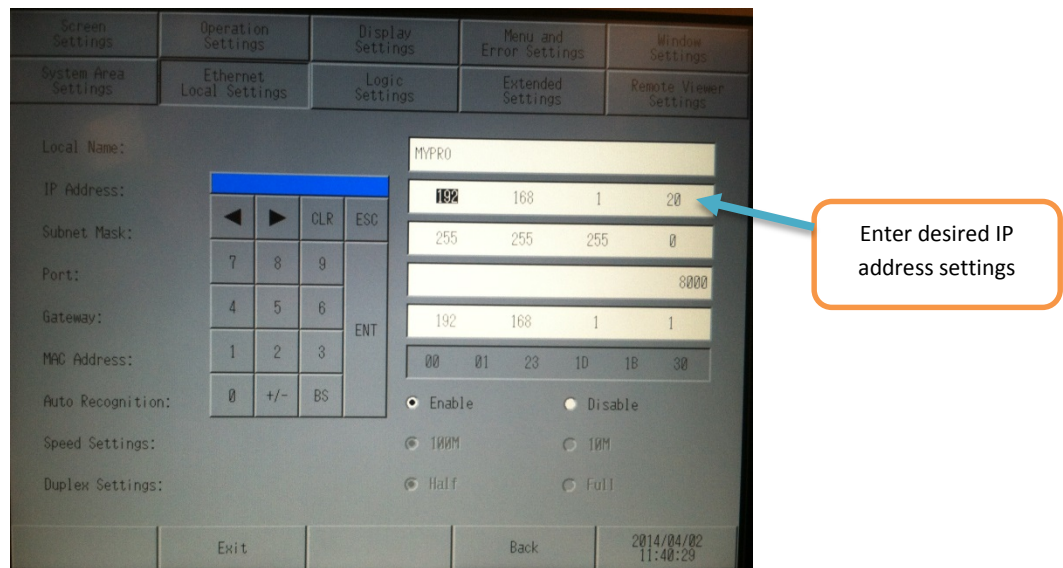


Figure 6: Ethernet Local Settings

7a) Use the dropdown keypad to make necessary changes. Creating a local name for each panel makes it easier to identify when there are multiple panels in the network.

8. To configure the IP address of the PLC communicating with the MYPRO Touch, select [Peripheral Settings] at the top menu bar.

8a) After the peripheral settings screen appears, select [Device PLC Settings] as shown in Figure 7.

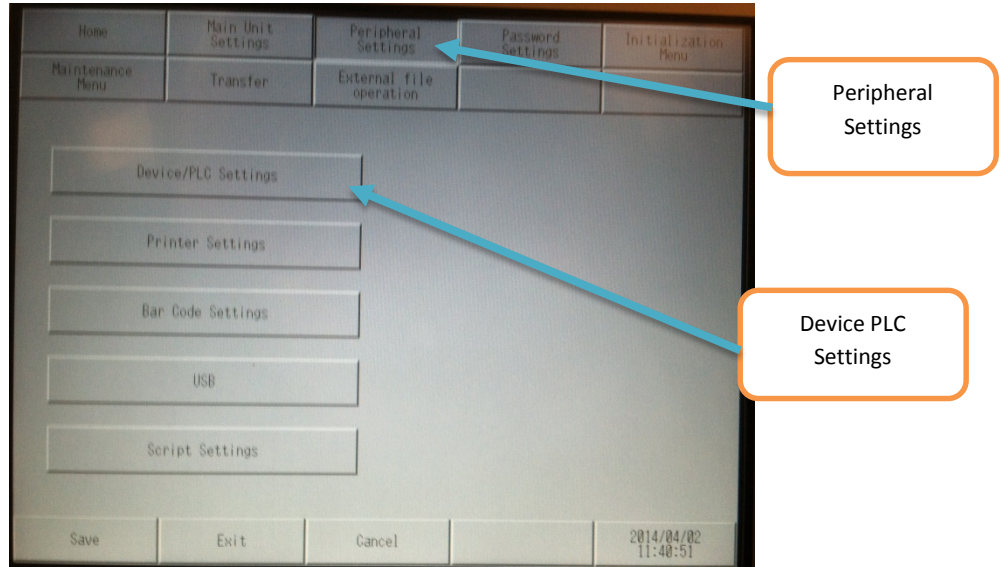


Figure 7: Peripheral Settings screen

9. From Device PLC Settings screen select Rockwell Automation from the list. See Figure 8.

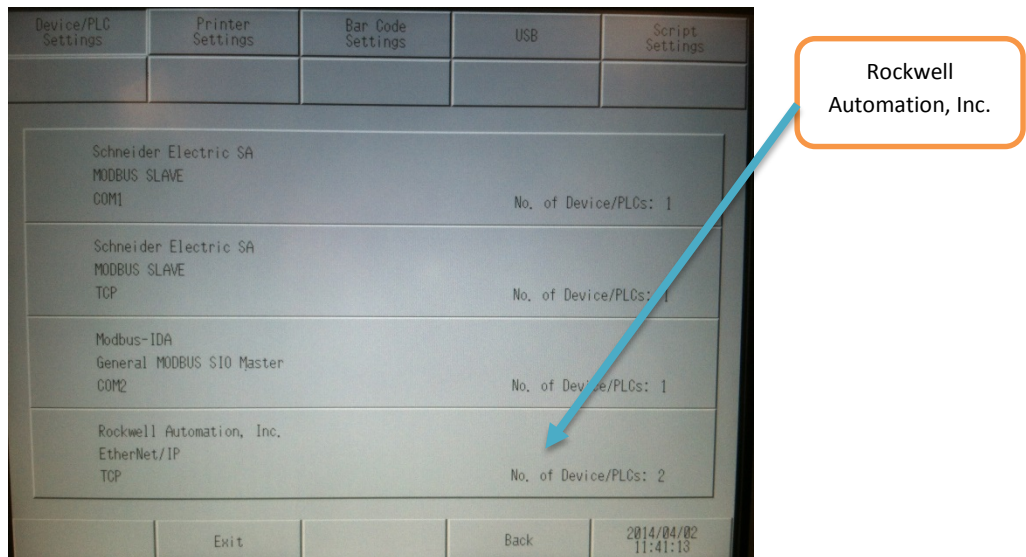


Figure 8: Device PLC Settings screen

10. On the first page that appears select [Device] as illustrated in Figure 9.

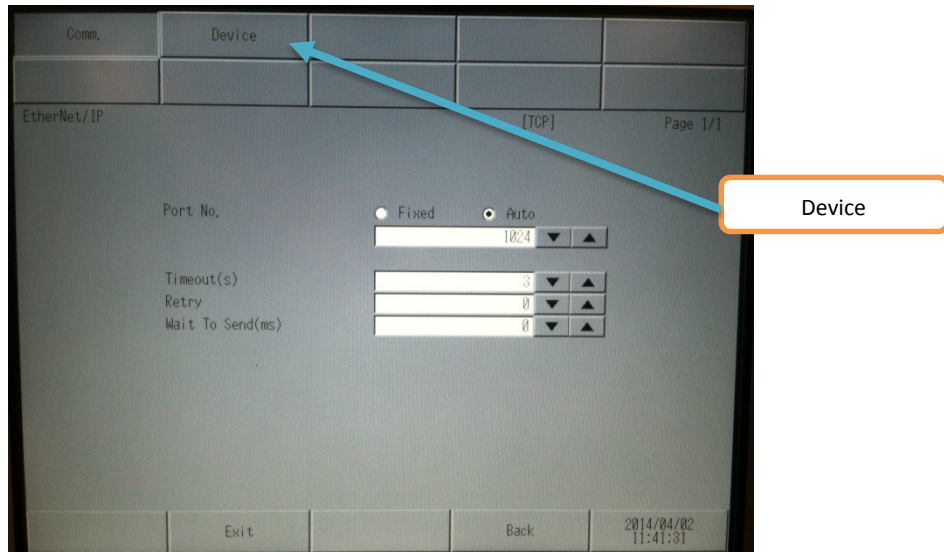


Figure 9: Select [Device]

11. Select the device communicating with the MYPRO Touch. PLC4 = Control/CompactLogix, PLC5 = MicroLogix. Reference Figure 10.

11 a) Enter IP address of the PLC.

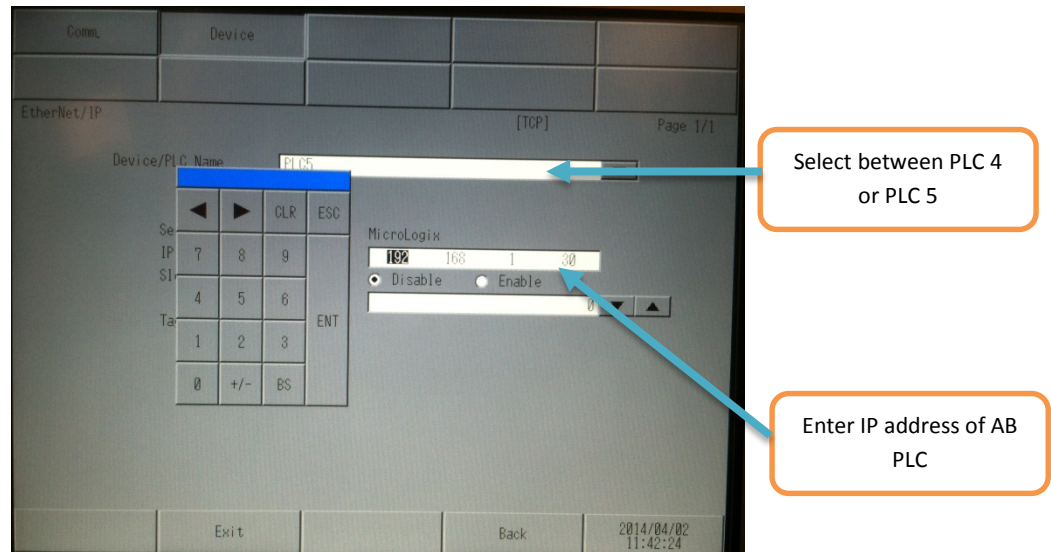


Figure 10: Selecting Device

12. After completing the necessary network settings, touch [Exit] then [Save Changes and Exit] to reboot panel to normal mode.

SETTING UP THE DEVICES IN THE RSLOGIX 5000/500

1. For a Compact/ControlLogix controller, open or create the RSLogix 5000 file that will be downloaded to the processor. (If using RSLogix500, skip to step 4)

1 a) Create controller tags with appropriate dimension by following the File and Slave Number tab of the excel file provided. The dimension of each file shall match exactly to the Ethernet IP CompactLogix Device List 3.14.14_RELEASE COPY.

1 b) Ver. 106 communication driver software – Integer tags associated to the word registers shall have a dimension of 384 and Boolean tags associated to the two coil registers per machine should have a dimension of 0.

1 c) Figure 11 shows a setup to communicate with 3 MYPRO Touch controllers.]

NOTE: These tag names are for reference only. Create tags with familiar structure will help with the development of the program.

Name	Alias For	Base Tag	Data Type	Description	External Access	Constant	Style
HOLDING_REGISTER_MT3_1			INT[384]		Read/Write	<input type="checkbox"/>	Decimal
HOLDING_REGISTER_MT2_1			INT[384]		Read/Write	<input type="checkbox"/>	Decimal
HOLDING_REGISTER_MT1_1			INT[384]		Read/Write	<input type="checkbox"/>	Decimal
COILS_MT3_2			INT		Read/Write	<input type="checkbox"/>	Decimal
COILS_MT3_1			INT		Read/Write	<input type="checkbox"/>	Decimal
COILS_MT2_2			INT		Read/Write	<input type="checkbox"/>	Decimal
COILS_MT2_1			INT		Read/Write	<input type="checkbox"/>	Decimal
COILS_MT1_2			INT		Read/Write	<input type="checkbox"/>	Decimal
COILS_MT1_1			INT		Read/Write	<input type="checkbox"/>	Decimal

Figure 11: Tags for MYRPO Touch in RSLogix5000

2. Go to Logic then Map PLC/SLC Messages. See Figures 12 & 13.

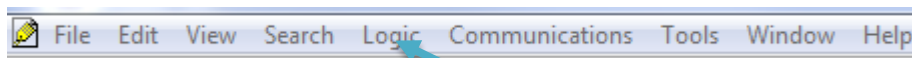


Figure 12: Logic in top menu banner

Select Logic

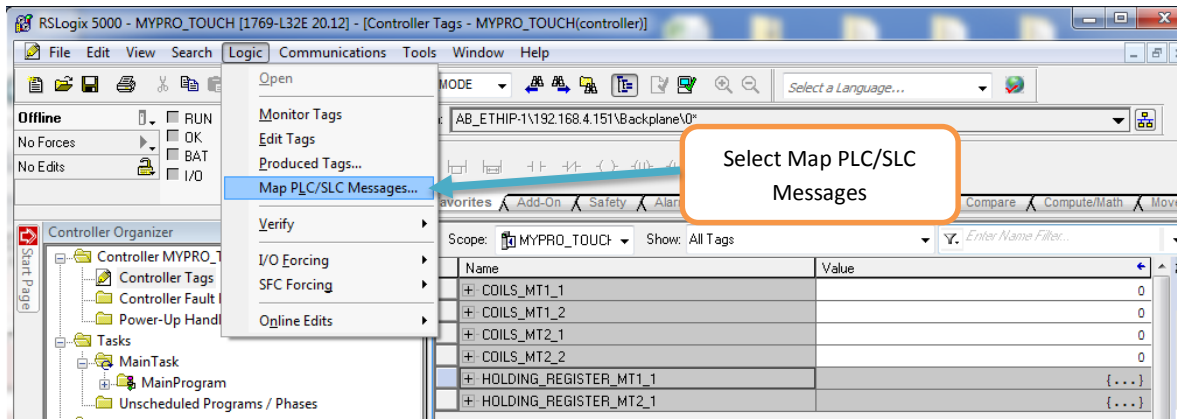


Figure 13: Map PLC/SLC Messages...

3. Start mapping the tags created according to the File and Slave Number tag of the excel file provided as shown in Figure 14 & 15.

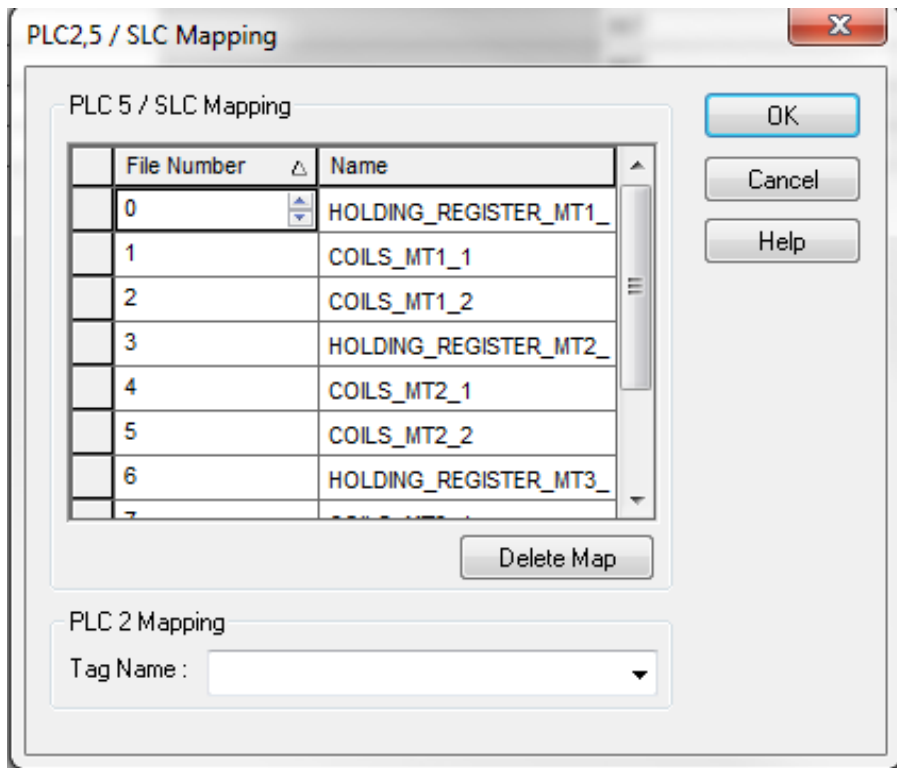


Figure 14: Mapping the appropriate tags to file number

These tags names are example only. You may change the name to something that will be easier for you to use. What is important to match is the correlation of the FILE NUMBER to the type of data you are getting (WORD or COIL) and to the slave number of the MYPRO Touch, starting slave number will determine starting File number:

EXPLANATION:

FILE 0 = WORD data for SLAVE 1

FILE 1 = COIL data for SLAVE 1

FILE 2 = COIL data for SLAVE 1

FILE 3 = WORD data for SLAVE 2

FILE 4 = COIL data for SLAVE 2

FILE 5 = COIL data for SLAVE 2

FILE 6 = WORD data for SLAVE 3

FILE 7 = COIL data for SLAVE 3

FILE 8 = COIL data for SLAVE 3

FILE 9 = WORD data for SLAVE 4

FILE 10 = COIL data for SLAVE 4

FILE 11 = COIL data for SLAVE 4

etc. until you reach slave number 8.

Figure 15: File number to Slave node number mapping

4. For a MicroLogix controller, create or open the RSLogix 500 file that will be downloaded to the processor. (If using RSLogix 5000, use step 1 through 3 on pages 8 & 9)

4 a) Create the data files necessary according to the [Ethernet IP MicroLogix Device List 3.14.14_RELEASE COPY].

4 b) For the Ver. 106 communication driver software, create two Integer (N) data files with 250 elements for the data associated with the word registers. In addition the program will require one Bit (B) type data file with 2 elements to receive the data associated with the coils/bits in the MYPRO Touch.

4 c) Figure 16 shows data file sample to communicate with **two** MYPRO Touch controllers.

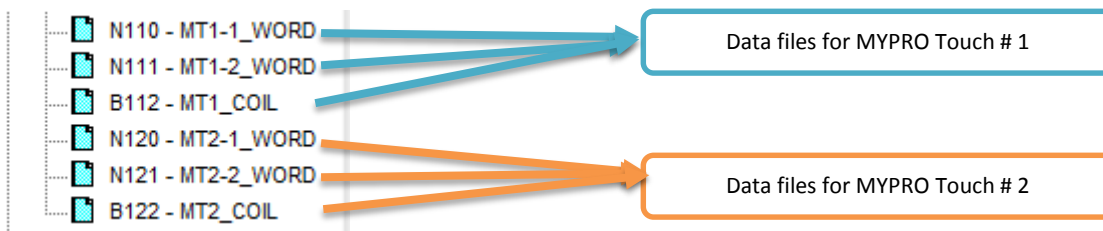


Figure 16: Setting up Data Files in RSLogix500

5. After completing the setup in the RSLogix 5000 or RSLogix 500 project file, download the new file to the processor.

TURNING THE COMMUNICATION ON THE MYPRO TOUCH

AFTER ENSURING THAT BOTH THE MYPRO TOUCH AND THE AB PLC ARE IN THE SAME NETWORK AND SUBNET PERFORM THE FOLLOWING STEPS TO RUN THE COMMUNICATION FROM THE MYPRO TOUCH.

USER MUST BE LOGGED IN TO PANEL TO PERFORM THESE MANIPULATIONS.

1. Touch "MENU" and then "CONTROL" button.

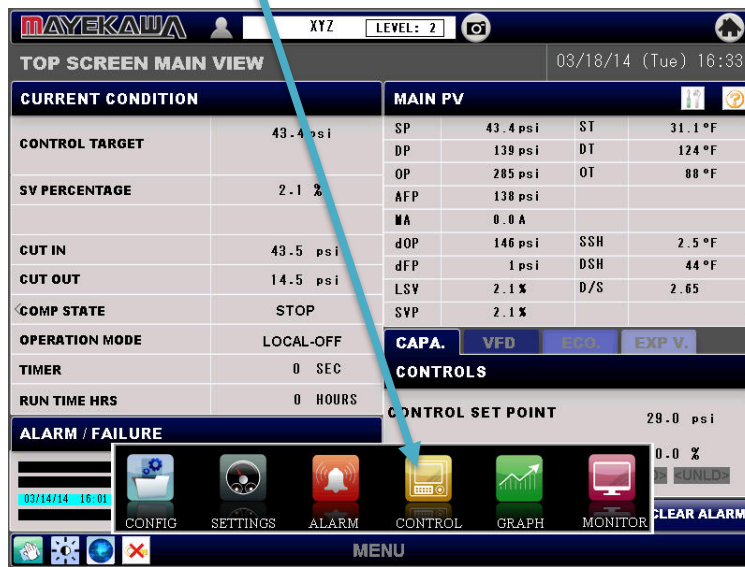


Figure 17: Main Screen Menu

2. Touch the left side arrow to flip screen as shown in Figure 18.



Figure 18: Control Summary Screen 01

3. Select “Communication Setup”, see Figure 19.

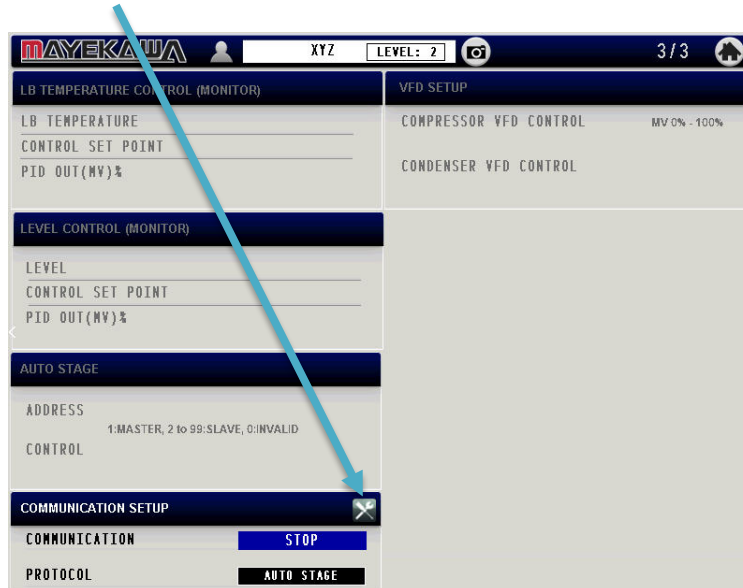


Figure 19: Communication Setup 01

4. Configure MYPRO Touch HMI Communications.

- 4 a) Select master communication device from menu.
- 4 b) Select the slave address number of MYPRO Touch on the network. If only one MYPRO Touch is in the network, simply set it to 1.
- 4 c) After performing all these settings turn the communication to RUN.

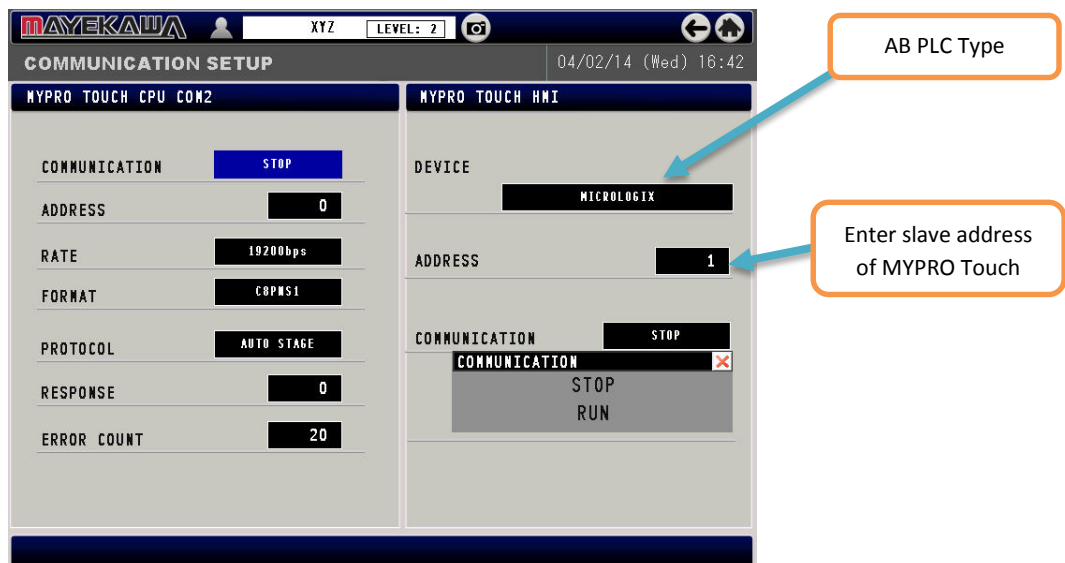


Figure 20: Communication Setup 02

5. If all settings are performed properly the communication with the PLC should be established.

REV#	DATE	W BY	R BY	COMMENT
1	04/02/14	HT		FIRST VERSION OF DOCUMENT CREATED
2	04/03/14	HT	PK	FIRST REVISION ON MANUAL
3	02/03/15	HT	RS	REVISION OF NODE/FILE ADDRESSING