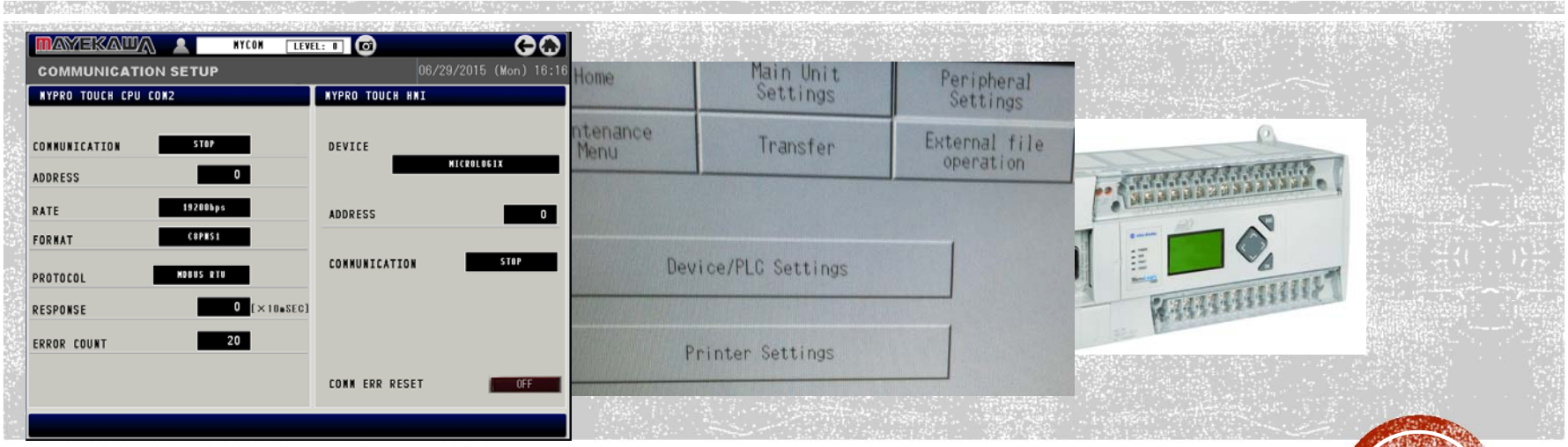
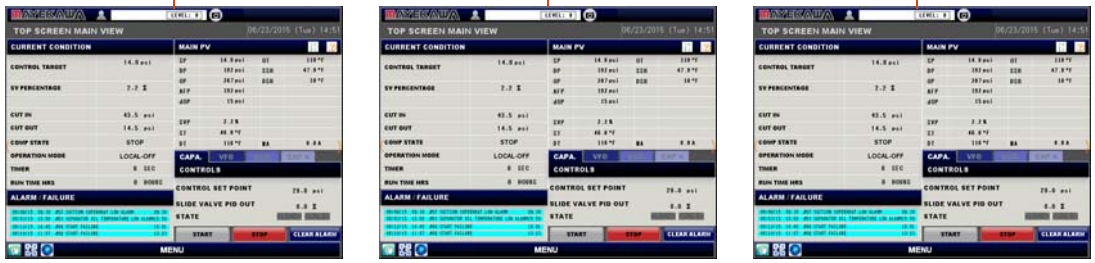
MYPRO TOUCH WEBINAR TRAINING



LESSON 7: Advance Remote Communications (Troubleshooting and Solutions).
Protocols supported.
Connecting a supervisory PLC through panel communications.
Common questions and problems.

PROTOCOLS



WHAT ARE PROTOCOLS?

COMMUNICATION PROTOCOLS ARE LIKE LANGUAGES THAT THE PANEL USES.

WHICH PROTOCOLS DO WE SUPPORT?

ETHERNET IP FOR AB COMPACTLOGIX CONTROLLERS.

ETHERNET IP FOR AB MICROLOGIX CONTROLLERS.

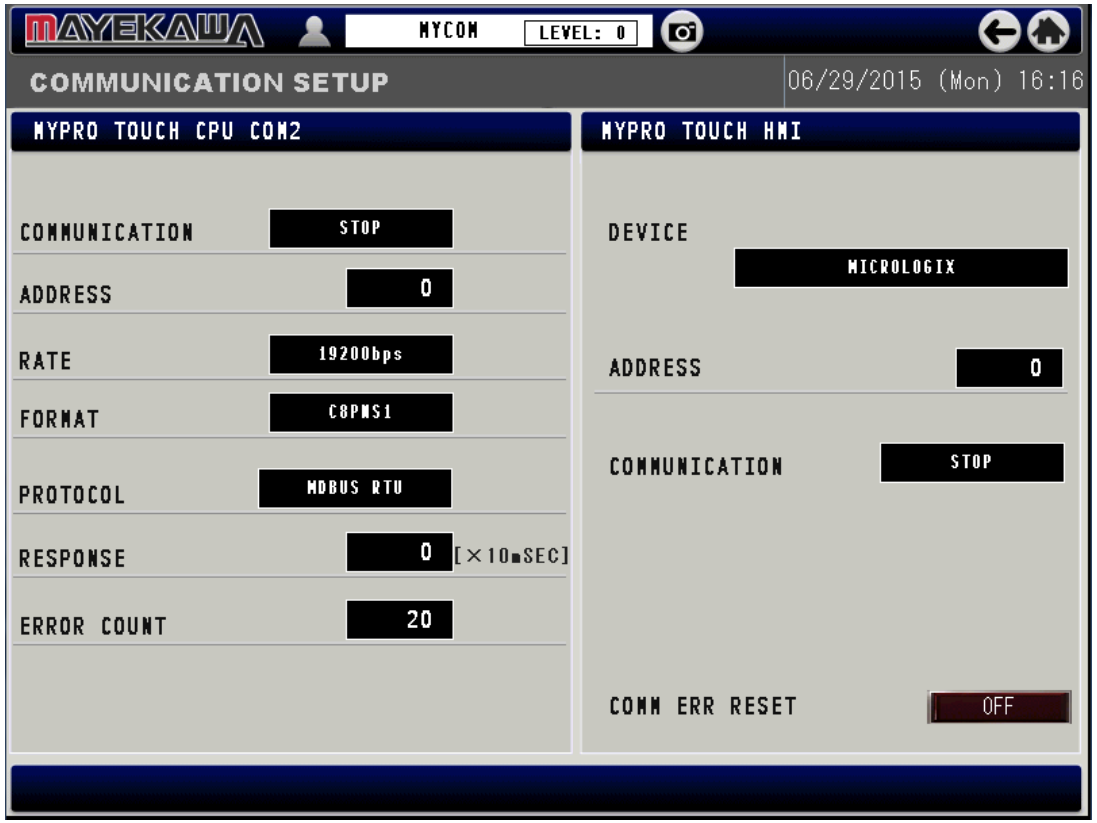
MODBUS RTU –SERIAL RS485 OR 232C

MODBUS TCP/IP - ETHERNET

UP TO HOW MANY MYPRO TOUCH CONTROLLERS CAN WE CONNECT TO ONE PLC

EIGHT (8)

HOW TO CONNECT TO A PLC



FOR ETHERNET COMMUNICATION ENSURE YOUR NETWORK SETTINGS ARE SET PROPERLY.

1. SET PANEL IP ADDRESS. (REFER TO WEBINAR 6)
2. SET PLC IP ADDRESS
3. GO TO COMMUNICATION SETUP SCREEN AND MAKE PROPER DEVICE AND ADDRESS SELECTIONS AND SET COMMUNICATION TO RUN

FOR SERIAL COMMUNICATION ENSURE YOUR WIRING IS DONE PROPERLY.

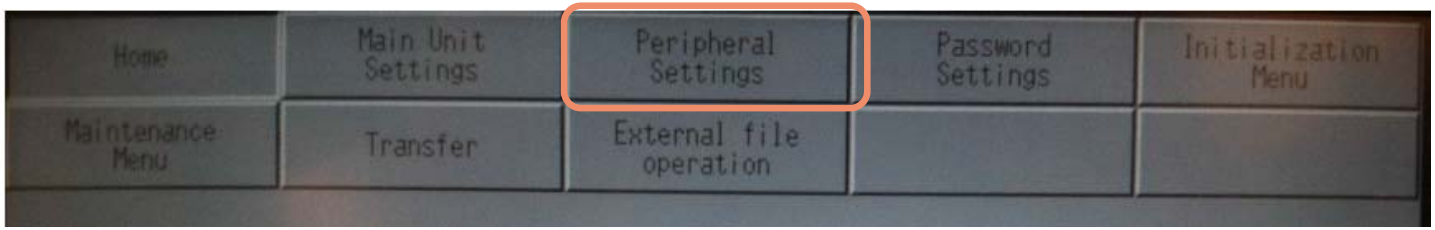
1. FOLLOW MANUAL'S WIRING DIAGRAM, FOR 90% OF APPLICATIONS USE MOTHERBOARD'S RS PORT.
2. USE SERIAL PORT SETUP ON COMMUNICATION SETUP SCREEN TO MAKE PROPER OPTION SELECTIONS AND SET COMMUNICATION TO RUN.

HOW TO SET PLC IP ADDRESS

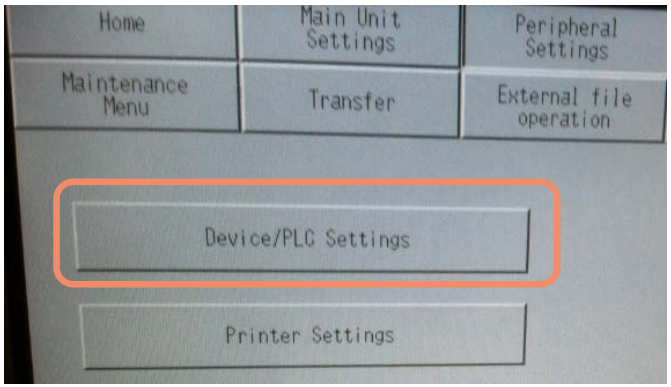
- GO TO OFFLINE MENU

Figure 3: System Menu

- USE PASSWORD 1313 TO ENTER TO THE OFFLINE MENU, THEN SELECT PERIPHERAL SETTINGS



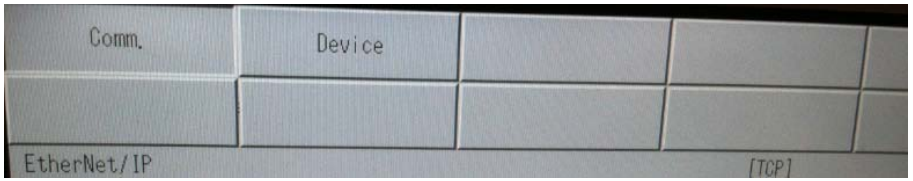
- AFTER PERIPHERAL SETTINGS OPENS SELECT DEVICE/PLC SETTINGS FROM LIST



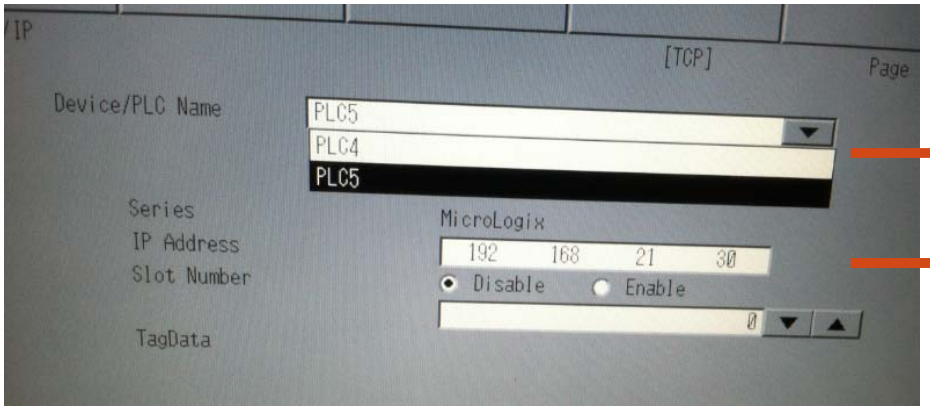
ASSIGNING PLC IP ADDRESS CONT.

- CHOOSE ROCKWELL AUTOMATION. INC. FROM THE LIST

- ON THE FOLLOWING PAGE OPEN DEVICE FROM THE TOP MENU BUTTONS



- SELECT PLC TO COMMUNICATE TO AND ASSIGN IP ADDRESS OF PLC ON THIS PAGE



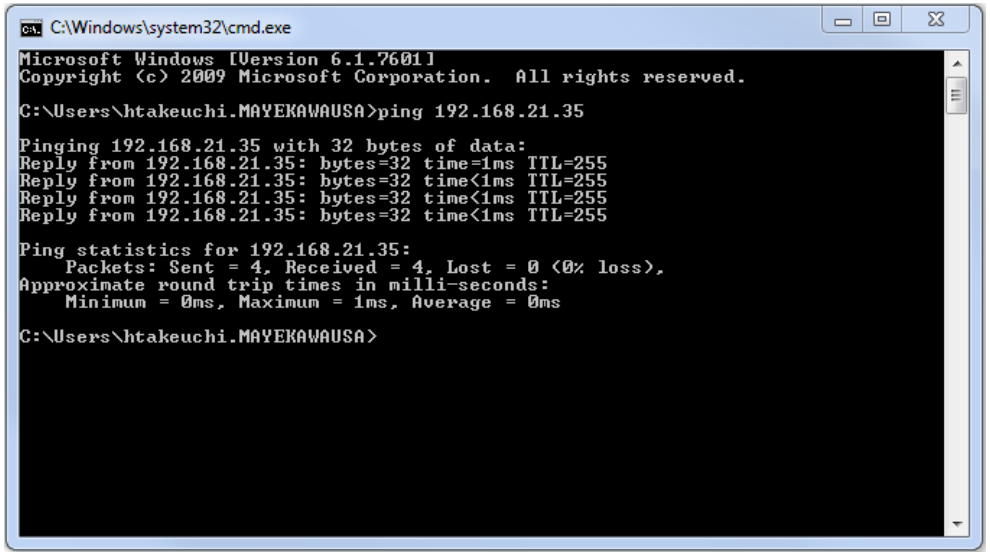
PLC 4 COMPACTLOGIX
PLC 5 MICROLOGIX

IP ADDRESS OF PLC CONTROLLER

Q&A POINT

QUESTIONS ?

HOW TO PING THE PANEL



PING PANEL'S IP ADDRESS TO ENSURE THAT YOUR PANEL IS IN NETWORK

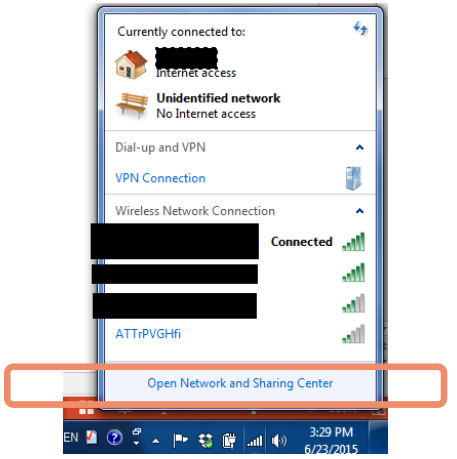
ANSWER TO COMMON QUESTIONS

- HOW DO I KNOW THAT THE NETWORK CONFIGURATION WAS DONE PROPERLY?

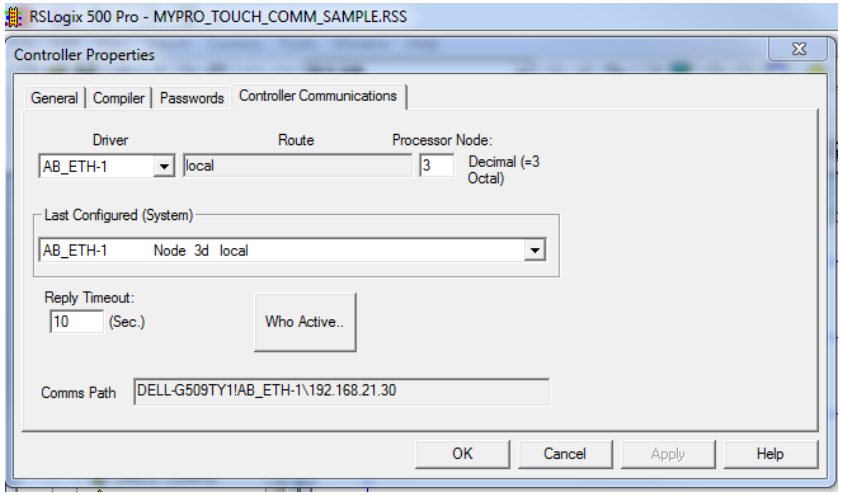
  CONNECT YOUR COMPUTER TO NETWORK AND PING PANEL TO FIND IF THE MYPRO TOUCH IS VISIBLE IN THE NETWORK.

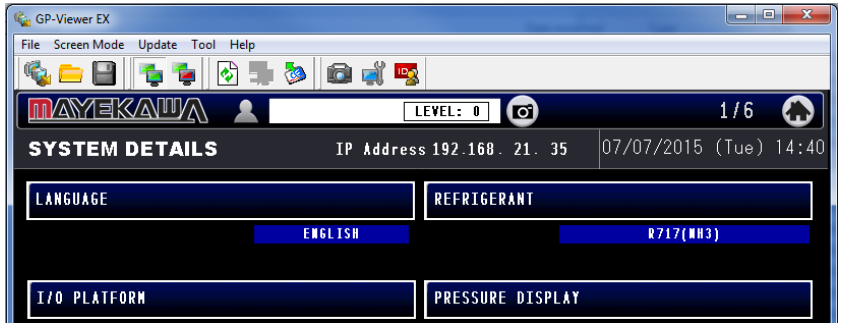
IMPORTANT POINT

YOUR COMPUTER NEEDS TO BE SETUP PROPERLY IN THE NETWORK AS WELL.



SETUP ON THE PLC

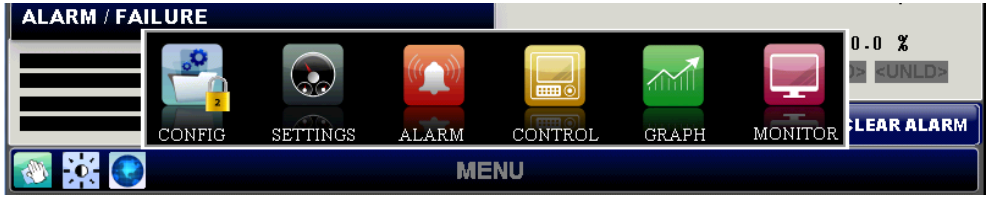


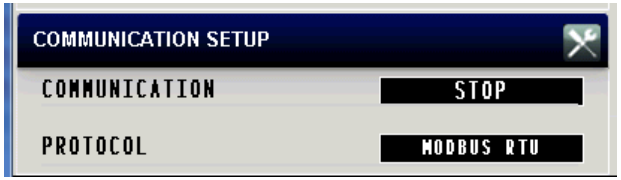


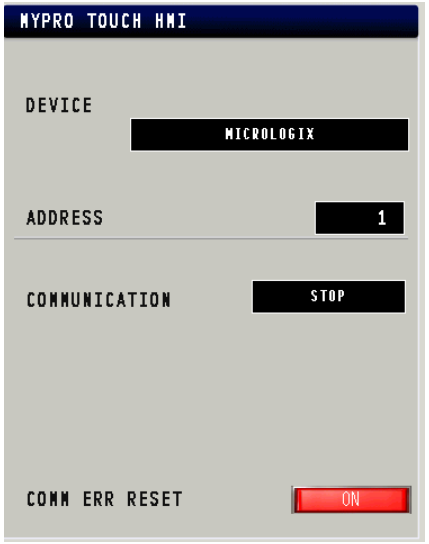
BEFORE TURNING COMMUNICATION TO ON (RUN). ENSURE THE FOLLOWING LIST CHECKS OUT

- ☑ ENSURE BOTH THE PLC AND MT PANEL ARE IN THE SAME SUBNET WITH THEIR STATIC ADDRESSES PROGRAMMED PROPERLY
- ☑ FROM A COMPUTER IN THE NETWORK MAKE SURE YOU CAN PING BOTH THE PLC CONTROLLER AND THE MT PANEL
- ☑ ENSURE PROGRAM IN PLC ARE SETUP PER THE HOW TO MANUALS FOUND ON THE SERVER AND 365 SHARE DRIVE.

TURN ON COMMUNICATIONS







TO TURN ON COMMUNICATIONS GO TO:

1. SIGN ON TO PANEL WITH LEVEL 1 OR HIGHER CREDENTIALS.

2. GO TO CONTROLS SUMMARY

3. OPEN COMMUNICATION SETUP

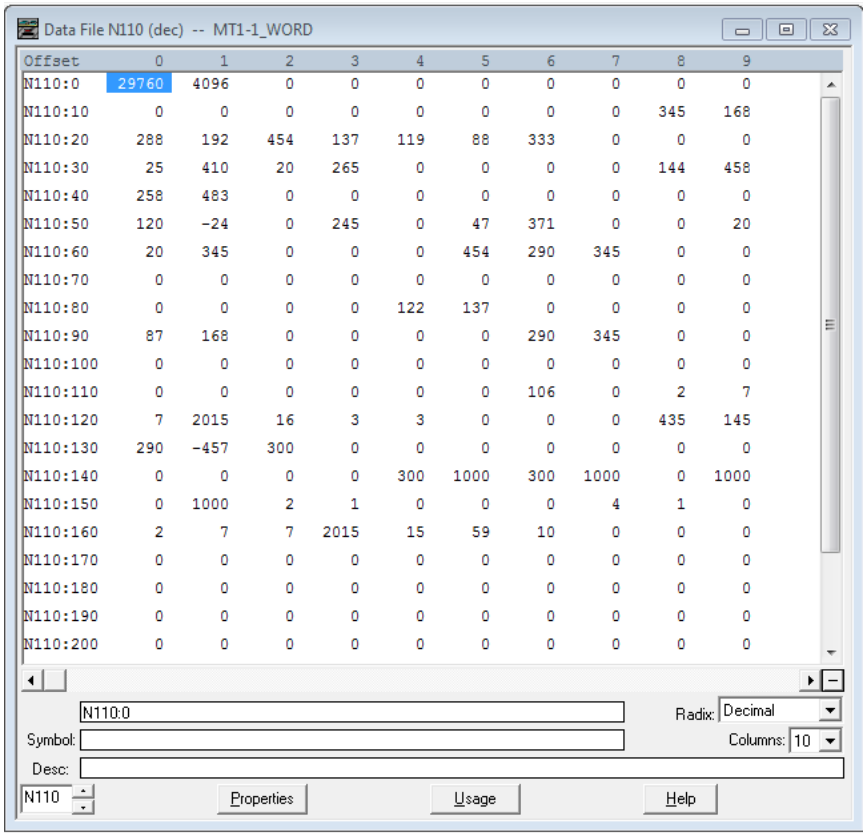
4. SELECT CONTROLLER (DEVICE) MT PANEL WILL BE CONNECTING TO

5. ASSIGN ADDRESS OF MT PANEL. IF COMMUNICATING ONLY TO 1 INSERT 1 HERE

6. SELECT IF AUTO CONNECT IS NEEDED AFTER A COMMUNICATION FAILURE TAKES PLACE

NOTE: EXAMPLES SHOW MICROLOGIX

DETAIL ON COMMUNICATION



Offset	0	1	2	3	4	5	6	7	8	9
N110:0	29760	4096	0	0	0	0	0	0	0	0
N110:10	0	0	0	0	0	0	0	0	345	168
N110:20	288	192	454	137	119	88	333	0	0	0
N110:30	25	410	20	265	0	0	0	0	144	458
N110:40	258	483	0	0	0	0	0	0	0	0
N110:50	120	-24	0	245	0	47	371	0	0	20
N110:60	20	345	0	0	0	454	290	345	0	0
N110:70	0	0	0	0	0	0	0	0	0	0
N110:80	0	0	0	0	122	137	0	0	0	0
N110:90	87	168	0	0	0	0	290	345	0	0
N110:100	0	0	0	0	0	0	0	0	0	0
N110:110	0	0	0	0	0	0	106	0	2	7
N110:120	7	2015	16	3	3	0	0	0	435	145
N110:130	290	-457	300	0	0	0	0	0	0	0
N110:140	0	0	0	0	300	1000	300	1000	0	1000
N110:150	0	1000	2	1	0	0	0	4	1	0
N110:160	2	7	7	2015	15	59	10	0	0	0
N110:170	0	0	0	0	0	0	0	0	0	0
N110:180	0	0	0	0	0	0	0	0	0	0
N110:190	0	0	0	0	0	0	0	0	0	0
N110:200	0	0	0	0	0	0	0	0	0	0

ANSWER TO COMMON QUESTIONS

- CAN I GET THE SENSOR VALUES OVER ETHERNET IP

  YES, PLEASE REFER TO ETHERNET IP ADDRESS LIST ON SERVER FOR DETAILS

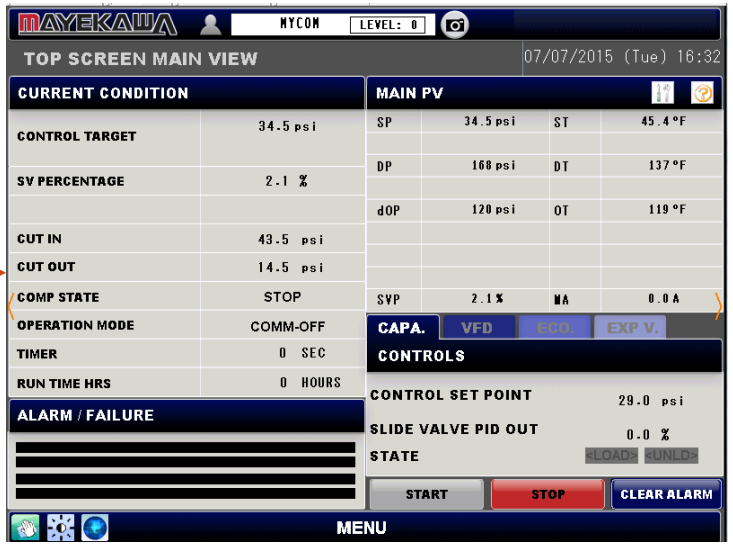
- CAN I RUN AND STOP THE COMPRESSOR VIA COMMUNICATION

  YES BY TOGGLE LING THE ADDRESS WHICH IS RELATIVE TO MODBUS COIL 00513

- CAN I LOAD AND UNLOAD THE COMPRESSOR VIA COMMUNICATION

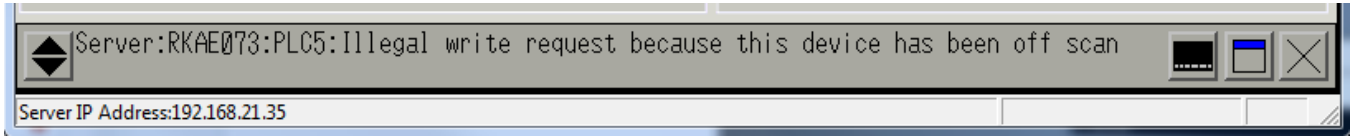
  YES BY WRITING A x10 VALUE OF THE SLIDE VALVE POSITION TO THE APPROPRIATE REGISTER

PLC CONTROL SIMULATION

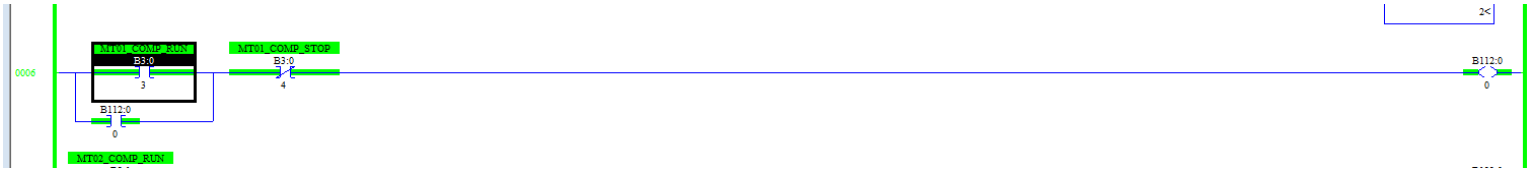


COMMON PROBLEMS

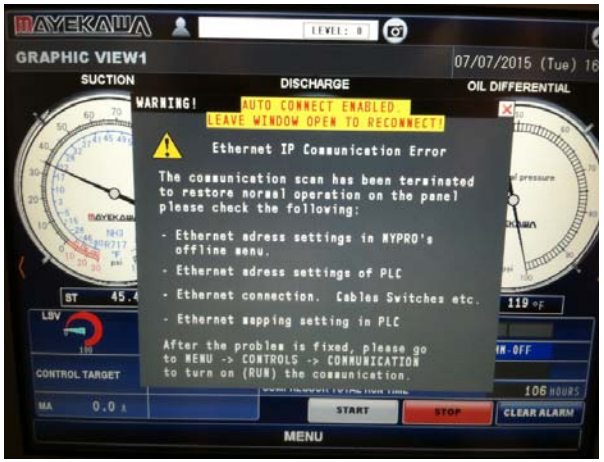
1. TRY TO CONNECT BUT IT KICKS OUT COMMUNICATION WITH THE MESSAGE BELOW SHOWING



2. IT DOESN'T RUN. (ENSURE TO HOLD BIT)



3. IT DOESN'T RECONNECT. (DO NOT CLOSE RECONNECTION WINDOW)



QUESTIONS?