MYPRO TOUCH WEBINAR TRAINING

COMMUNICATION SETUP	06/29/2015 (Mon) 16:10 NYPRO TOUCH HNI	Home	Main Unit Settings	Peripheral Settings	
	ATERO TODEN NAL		oeconigs	Settings	
ONNUNICATION STOP	DEVICE	ntenance Menu	Transfer	External file operation	
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RATE 19200bps	ADDRESS 0				e Charles and the second secon
FORMAT COPUSI		Marrie Britshi			
PROTOCOL NOBUS RTU	CONMUNICATION STOP	Dev	ice/PLC Settings		
RESPONSE [×10#SEC]					143434444444444
ERROR COUNT 20		Pi	rinter Settings		
	COMM ERR RESET OFF				

LESSON 7: Advance Remote Communications (Troubleshooting and Solutions). Protocols supported.

Connecting a supervisory PLC through panel communications.

Common questions and problems.

MAYEKAWA USA CONTROLS DIVISION

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)



		-					
CURRENT CONDITION		MAINPY	3				
CONTROL TRADET	14.8.01	L#	14.5 pei	81	118-4		
Construct Construct		87	107.001	118	47.5*7		
W PERCENTAGE	2.2 1	er.	JAT sul	808	18.47		
		ALF	10.0 441				
		457	13.001				
CUT IN	43.5 #41		1.15				
LUT OUT	14.5 #11	147					
COMP STATE	STOP	17	116.17				
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TOP SCREEN MAIN	AIEAA				
CURRENT CONDITION		MAIN PV			
CONTROL TARGET	16.8 (4)	LP .	14.5 poi	81	11
CONTROL INSUET		87	107.001	118	47
ST PERCENTRAL	2.2 1		387 sui	808	
		AIP	157 #41		
		457	15 eui		
CUT IN	42.5 +++				
EUT OUT	14.5 #11	197	0.17		
COMP STATE	STOP	91	118 **		
OPERATION MODE	LOCAL-OFF	CAPA	VE		ERPA
THER	8 150	CONTRO			
BUN TIME HRS	8 80882	CONTROL	SET POINT		11/10
ALARM / FAILURE					28-8
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TOP SCREEN MAIN V	1		<u></u>	AM-SHARE	15 (Tue)
CURRENT CONDITION		MAINPY			17
CONTROL TARGET	16.8 (4)	LP .	14.5 pei	91	110.*1
Service Install		87	107.001	118	47,8*1
ST PERCENTAGE	2.2 1		387 sui	808	18.4
		ATP	157.001		
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CUT IN	42.5 #41				
EUT OUT	14.5 #11	107	3.15		
COMP STATE	STOP	ar	118.47		
OPERATION MODE	LOCAL-OFF	CAPA	VED	-	COP & C
THER		CONTRO			
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ALARM / FAILURE		CONTROL	SET POINT	28-8 #11	
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HOW TO CONNECT TO A PLC

COMMUNICATION SETUP	06/29/2015 (Mon) 16:16
NYPRO TOUCH CPU CON2	NYPRO TOUCH HNI
CONNUNICATION STOP	DEVICE Micrologix
RATE 19200bps	ADDRESS
PROTOCOL MDBUS RTU	CONNUNICATION STOP
RESPONSE [×10msec]	
ERROR COUNT 20	
	COMM ERR RESET

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

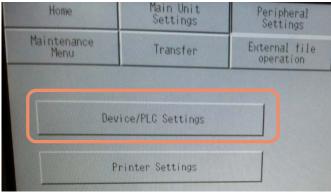
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USE PASSWORD 1313 TO ENTER TO THE OFFLINE MENU, THEN SELECT PERIPHERAL SETTINGS

Home	Main Unit	Peripheral	Password	Initialization
	Settings	Settings	Settings	Menu
Maintenance Menu	Transfer	External file operation		

• 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

Comm.	Device		
EtherNet/IP		,,	[TCP]

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

/IP	[TCP] Page	
	PLC5 PLC4 PLC5	PLC 4 COMPACTLOGIX PLC 5 MICROLOGIX
Series IP Address Slot Number	MicroLogix 192 168 21 30 ● Disable ● Enable	IP ADDRESS OF PLC CONTROLLER
TagData		

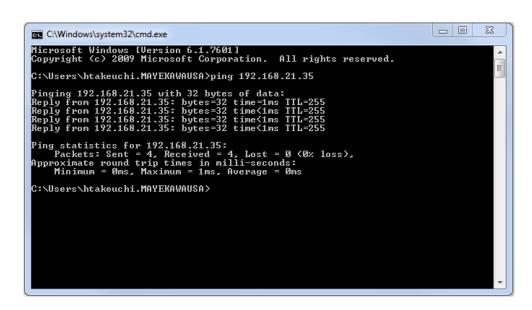
Q&A POINT







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.

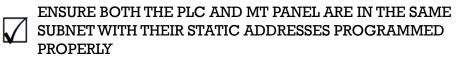


SETUP ON THE PLC

RSLogix 500 Pro - MYPRO_TOUCH_COMM_SAMPLE.RSS
Controller Properties
General Compiler Passwords Controller Communications
Driver Route Processor Node: AB_ETH-1 Iocal 3 Decimal (=3 Octal)
Last Configured (System) AB_ETH-1 Node 3d local
Reply Timeout: 10 (Sec.) Who Active
Comms Path DELL-G509TY1!AB_ETH-1\192.168.21.30
OK Cancel Apply Help

🙀 GP-Viewer EX			
File Screen Mode Update Tool Help			
🚳 😑 🕒 🍯 🗣 🐼 🐃 🤇	🎽 🖾 🛋 💀	}	
		LEVEL: 0 👩	1/6 💮
SYSTEM DETAILS	IP Addres	s 192.168.21.35	07/07/2015 (Tue) 14:40
LANGUAGE		REFRIGERANT	
	ENGLISH		R717(NH3)
I/O PLATFORM		PRESSURE DISPLAY	

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





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

ALARM

			102		
ALARM / FAILURE					
0,		(1 mil		A	
		((1) (1))			
CONFIG	SETTINGS	ALARM	CONTROL	GRAPH	MONITOR
- 6 - 💽			NU		
COMMUNICATION SE	rup		X		
CONNUNICATION		STO	P		
PROTOCOL		MODBUS	RTU		
		_			
NYPRO TOUCH HNI					
DEVICE					
i i	ICROLOGIX				
ADDRESS		1			
CONNUNICATION	STOP				

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



DETAIL ON COMMUNICATION

Offset	0	1	2	3	4	5	6	7	8	9	
	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	-
•											
N110):0								Rad	dix: Decimal	-
Symbol:										Column	
Desc:											,
N110		Pr	operties			Usage	1		Help		

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

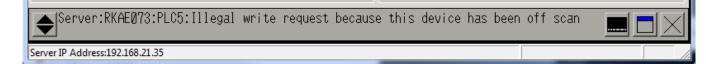


		HY	COM [LEVEL: 0	Ø			
	TOP SCREEN MAIN VIEW					7/07/20	15 (Tue) 16:32	
	CURRENT CONDITION			MAIN P	MAIN PV 🏦 🧭			
	CONTROL TARGET	34.5 psi 2.1 %		SP	34.5 psi	\$T	45.4°F	
				DP	168 psi	DT	137 °F	
	SV PERCENTAGE							
				dOP	120 psi	OT	119 °F	
	CUT IN	43.5	psi					
	CUT OUT	14.5	psi					
	COMP STATE	STOP		S¥P	2.1 %	NA	0.0 A	
	OPERATION MODE	COMM-OFF		CAPA.	VFD	ECO.	EXP V.	
	TIMER	0 SEC		CONTR	CONTROLS			
	RUN TIME HRS	0 HOURS		CONTRO				
	ALARM / FAILURE				29.U psi			
					SLIDE VALVE PID OUT 0.0 %			
						<[OAD> <unld></unld>	
				STAF	रा 📄	бтор	CLEAR ALARM	
	MENU							



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?



