



OPERATOR INTERFACE PRODUCTS APPLICATION NOTE

Subject: 48XX with E-6 module to a PLC5/15

AN# 1050A

Date: 10/22/96

Name: Steve Vargo

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Description: Communication between a 4800 and a PLC5/15 communicating Data Highway.

This is how to setup and communicate to a PLC5/15 thru a 1770-KF2 and a 48XX.

A. this is the setup for the configuration menu on the 48XX.

Serial Port Configuration	Menu Data Highway Port Configuration	Miscellaneous
6 = 9600 Baud	6 = 9600 Baud	0 = Underline cursor
0 = Parity Zero	1 = Even Parity	1 = Softscroll
0 = Disable Parity	4 = ACK Timeout	1 = 60HZ
1 = Data Bits 8	3 = Response Timeout	0 = Unlock Keypad
1 = Full Duplex	0 = Foreground Mode	0 = Data Registers
0 = Disable Handshake	017= Station Number	0 = Clock
0 = XON/XOFF		0 = No Linefeed
0 = Dont Echo		0 = Ignore Remote
		X = Keypad Type
		XXX = Start-Up
		1000 = # Data
		1 = # of Status

B. This is the OIL test program that I used that worked.

CS

@5,5

"Test PLC Comm"

TR,32,#31

%LOOP

PUT 040,17,1,#31,#20

GET 040,17,1,#30,#21

@5,7

"Comm Status: " :#20: " " :#21

@5,9

"Put Data: " :#31

@5,10

"Get Data: " :#30



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GO LOOP

C. Here is the information on the cabling.

4800 to 1770-KF2 Module

2-----3

3-----2

4-5-6tied 4-5tied together

7-----7

6-8-20 tied together

The cable that goes from the 1770-KF2 to the Peer Comm Intfc on the PLC 5/15 is a blue cable with the part number CAT NUMBER 1784-CPS.

D. Switch Settings for PLC 5/15 and the PLC RACK.

Switch settings for the PLC RACK is 1-5 are OFF, 6 is ON, 7 and 8 are OFF.

Switch settings for the PLC are: Switch #1 as follows 1-5 are Closed(ON), 6 and 7 Open(OFF) 8 is Closed(ON). This is set for station address 040 and is set for Scanner Mode.

Switch #2 as follows: 1-8 are all Open(OFF).

Switch #3 as follows: 1 is Closed(ON), 2-4 are all Open(OFF).

E. Switch Settings for the 1770-KF2 Module.

NOTE: u = UP Position and d = DOWN Position

d u	u d d d d	d d	d d u	u u u	u u	d u u d	u u
sw8	sw1	sw2	sw3	sw4	sw5	sw6	sw7

The 1770-KF2 is set for Address 017 this was done by setting the switches on sw2-sw4.



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To communicate with the PLC5/15 the address 017 is in Octal form, in Decimal form it is 15 so setup in the PLC Software N15:300 for the proper file to communicate too.

F. Use the 6200 Programming Software to set the following.

Rack Configuration-- Go into the "General Utilities"- "Processor Status" and Inhibit those racks that are not used. If only one Rack is used then it is Rack 0. Set inhibit to 11111110.

Destination File*****VERY IMPORTANT***** Go into "General Utilities"- "Memory Map" and create the data file to hold the information. If the KF2 is address 17 then you should create an address 15. It should be in the integer file of at least 300 Bytes. So for the Memory Map choose to create a data file (F6) and enter N15:300.

G. To Program the PLC5/15.

Install Allen Bradley 6200 Series Programming Software on your PC. Connect the Smart Cable from the serial port one on your PC to the 1770-KF2 Computer Port. Use the CAT Number 1784-CP5 To connect the 1770-KF2 Data Highway Port and the PLC5/15 Peer Comm Intfc port. Set switch #7 on the 1770-KF2 to both DOWN (Remember to reset both UP when finished so you can connect to Data Highway. On the PC type "IT". This gets you into the software. Follow Menus to set the parameters and creates data files. Data file is decimal so if the 1770-KF2 is address 17 then create a integer file N15:300.