Configuring DL3000-ASM in Windows 2000

The Problem: We have seen the DL32 Configuration program coming with Unable to communicate with DataLink under Windows 2000. We believe this problem to be hardware (ie. The PC or Laptop) dependent and not the operating system as we have tested the software extensively in house with Windows 2000, SP 2.

The Solution: The solution is to configure the parameters manually through the DL3000's offline debugging tools.

Step1: Get to the DL32 Configuration Program's Main Menu, then choose the COM Port you are using to connect to the DL3000. In this case I am using COM 1. Then select the DL Off-Line Manager button to bring up the Terminal Program.



Step 2: Press the Configure Pushbutton, and click OK when the leds are correct.

Press Configure PUSHBUTTON to Activate DataLink Module Manager (BIOS) 🔀					
⚠	Press the Configure pushbutton on the DataLink. 'CHA' AND 'CHC' LEDS SHOULD BE RED, 'CHB' LED SHOULD BE OFF!				
	OK				

Step 3: From the Main Menu which appears in the white part. Press '5' for goto Debug prompt. It will ask you to hit CR, do this and a dot prompt will appear.



Step 4: Configuring the Parameters for the DL3000-ASM.

From the Dot prompt two commands will be used. One is the 'B' command to display a certain word of EEPROM and the other is the 'W' command the write to certain words of EEPROM. Below is an example of Configuring the DL3000-ASM as the following.

Sconfiguration of [DL 3000-	ASM] - MAIN	MENU					
- OPERATING MODE SELECT	ION						
O STANDARD DF1 to	DH+	⊙ ASC	II to DH+				
- AB DH+ NETWORK PARAM	ETERS						
SETUP PLC DESTINATION DATA TABLE ADDRESS							
STATION NUMBER 6	🗸 Octal						
PLC ADDRESS 15	• Octal	NETWORK SE	57.6	Kbaud			
ASCIL COMMUNICATION PROTOCOL							
9600 Baud SET/CHANGE ASCII ASYNC PARAMETERS							
CONFIGURATION Settings	DOW	LOAD to DL	RETURN to	Main Menu			

To configure the DH+ Station number (6) and the PLC address (15) you type the following..

.B7<CR> .0001 - Might be different, what ever was configured in Word 7 before. .W7,0D06<CR> .B7<CR> .0D06 - 0D is the PLC address in Hexadecimal not Octal, 06 is the DH+ station in Hex.

SCILASYNC PARAMETERS								
PRESS BUTTONS TO TOGGLE THE FOLLOWING OPTIONS:								
PARITY-								
○ NONE	• YES							
PARITY								
ODD ODD	• EVEN							
DATA BITS								
• 8	07							
STOP BITS								
· 1	C 2							
-HANDSHAKING-								
IGNORE	○ ACTIVE							
ACC	EPT							

To setup the ASCII Async Parameters and Baud.

.B9<CR> .0008 - Might be different, what ever was configured in Word 9 before.

.W9,0608<CR>

.B9<CR>

.0608-06 configures all the ASYNC parameters as defined below \ldots

The 08 is the baud rate of the ASCII port. See below; 7=4800 Baud, **8=9600 Baud**, 9=19.2 K Baud, A=38.4 K Baud B=57.6 K Baud, C=115.2 K baud

Table for ASYNC Parameters..

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
					Parity	Odd=0	
					Yes	Even=1	



.B17<CR> .FFFF - Or what ever was configured before. .W17,000A<CR> .B17<CR> .000A - This the Hex of Starting Word 10.

To setup The PLC Destination Data Table Address..

.B16<CR> .FFFF - Or what ever was configured before. .W16,0028<CR> .B16<CR> .0028 - This the Hex of File Number 40.

To Setup the Startup Mode.

The last thing to configure is the startup Mode. This is controlled by Word D of EEPROM. .BD<CR> .0000 - Or what ever was configured before. .WD,0001<CR> .BD<CR> .0001 - This means Starting Mode 1 for ASCII.