Allen-Bradley DF-1 Slave Driver

Controller Information and Driver Configuration Sheet

for Red Lion Modular Controller

This document contains information specific to the configuration of Red Lion's Allen-Bradley DF-1 Slave communications driver when used with the Red Lion Modular Controller. The communications protocol supports access to pertinent parameters. Please read this document carefully before attempting to configure communications with these devices.

Compatible Devices

Family	Model
PanelView	w/ DF1 client support

Accessible Data

Prefix	Description	Element Size
N	Integer	1 Word

Default Communication Settings

The default configuration for the Allen-Bradley DF1 Slave driver is as follows:

Port	RS232
Baud Rate	19200
Data Bits	8
Parity	None
Stop Bits	1
Device Address	1

Other Communication Settings

Allen-Bradley PanelView must also be configured to the following settings:

Node Type	PLC-5
Error Detect	BCC
Handshake	OFF
Write to Controller at Startup*	Disabled

*Disabling this parameter is only necessary if the Red Lion product will not be connected and powered up upon initialization of the Allen-Bradley PanelView.
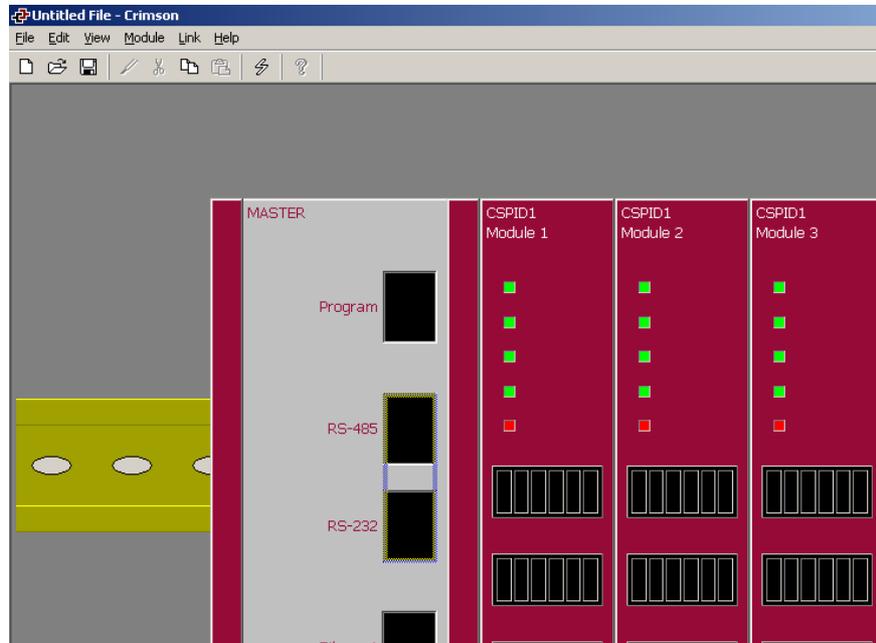
Cable Information

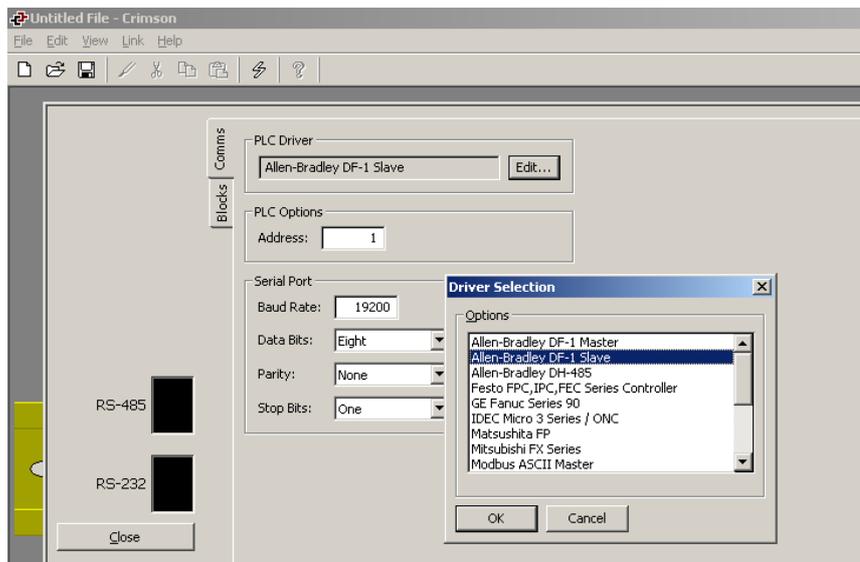| Red Lion Part Number	Description (Length)
CBLAB004	G3/Modular Controller to Allen-Bradley PanelView via DF1(10 ')

Selecting the Driver

Step 1

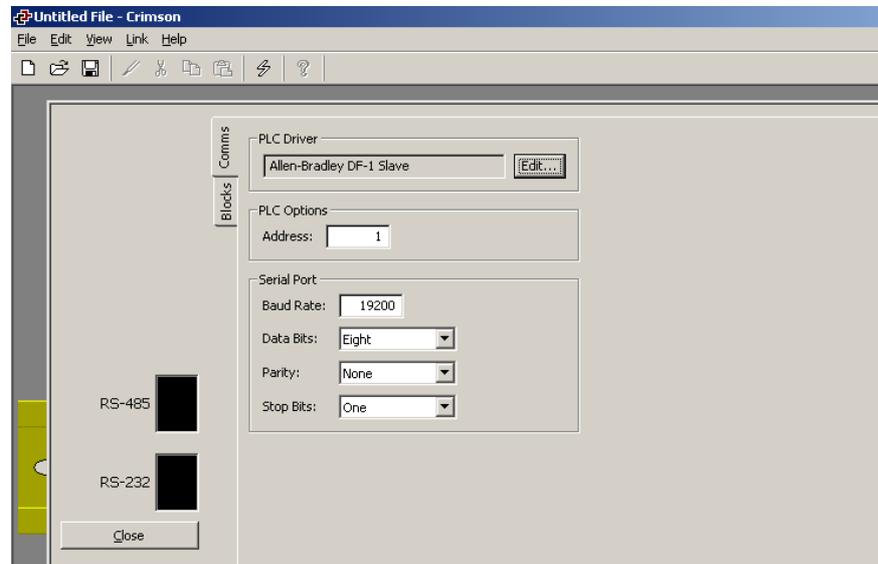**Double click on the RS-485 / RS-232 port of the Modular Controller Master image.**

Step 2

Click on the "Edit" button for PLC Driver, then select "Allen-Bradley DF-1 Slave" from the Driver Selection Options list and click "OK".
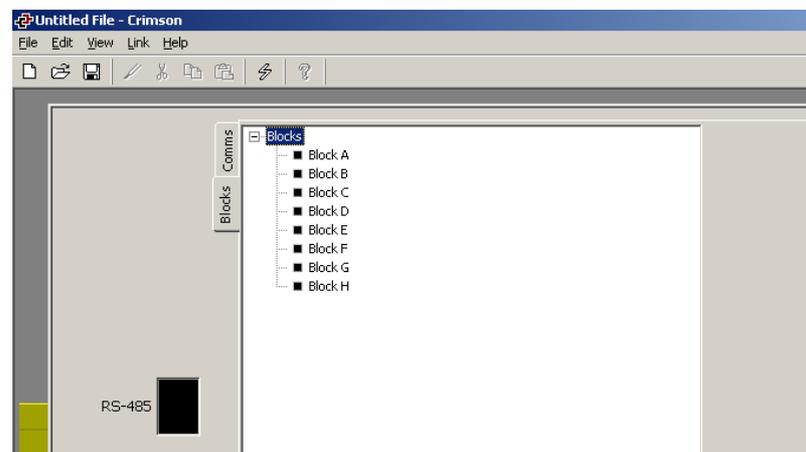
Step 3

All PLC Options and Serial Port parameters will be set to default settings. Options and parameters should be changed, if needed, to the desired settings.
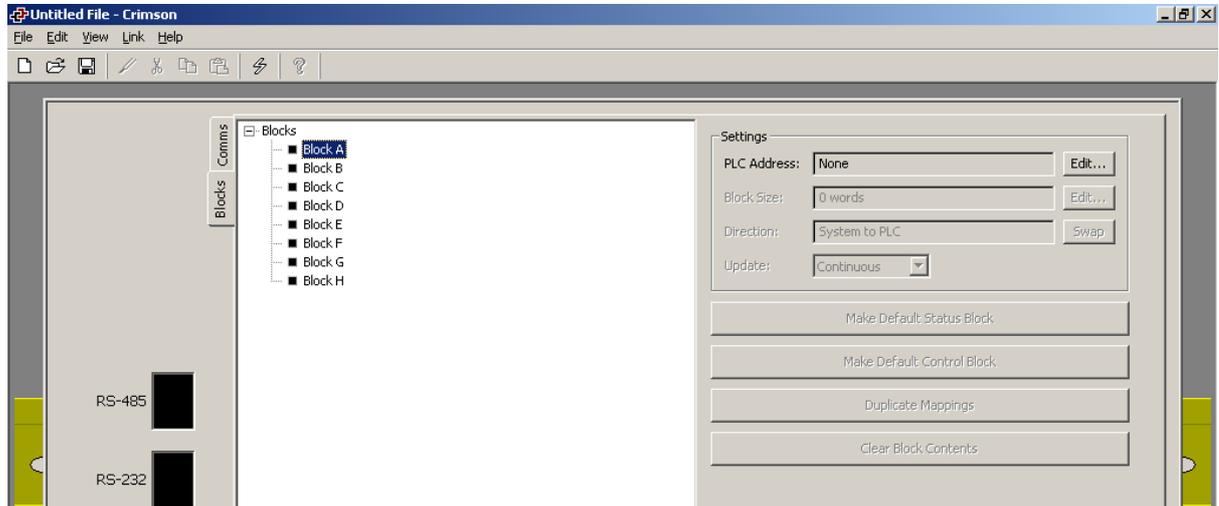
Data Access Configuration

Step 4

Double click on the RS-485 / RS-232 port of the Modular Controller Master image, then click on the "Blocks" tab to configure the accessible data.
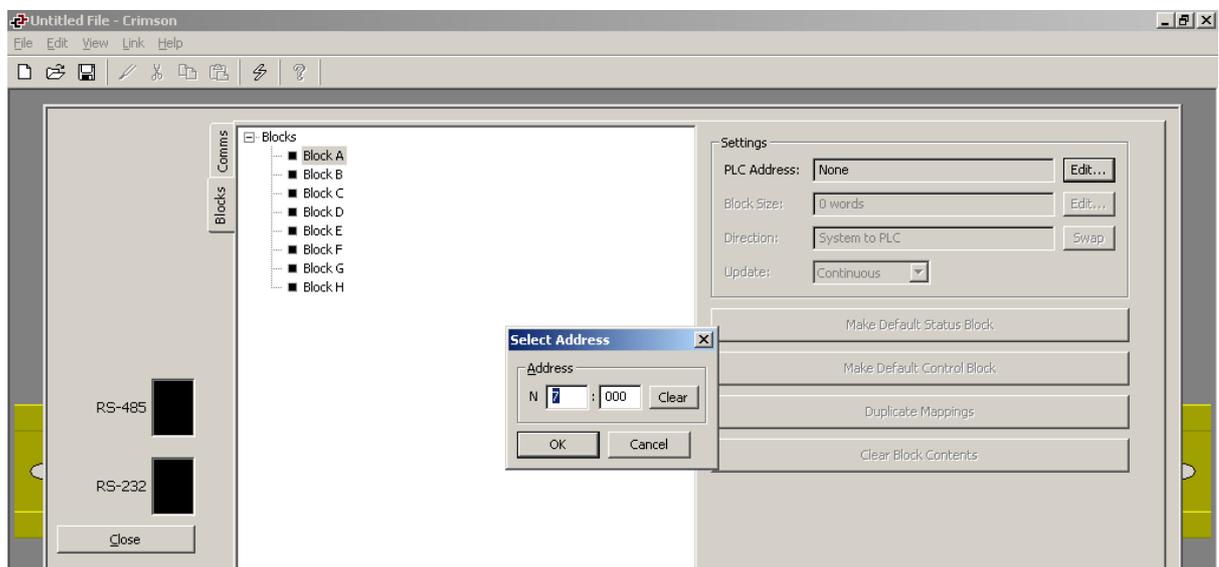
Step 5

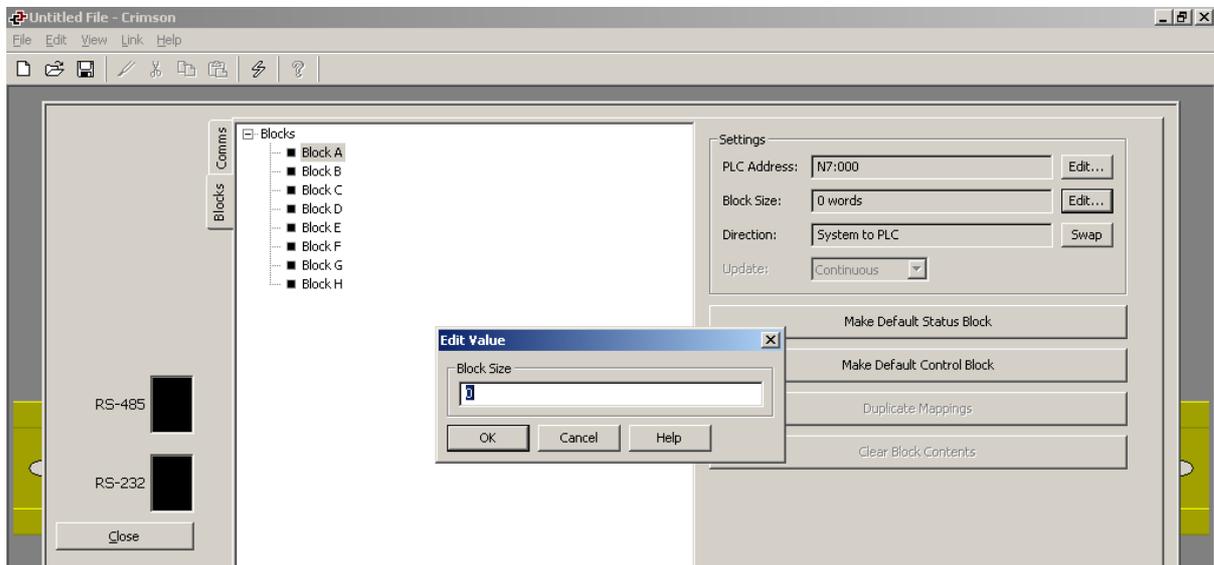**By clicking on a single block within the "Blocks" tree, "Settings" will be exposed.**

Step 6

Begin by clicking on the PLC Address "Edit" button. A "Select Address" dialog box will assist in selecting a beginning address for this block.

Step 7

After the PLC Address selection is complete, click on the Block Size "Edit" button. Enter the desired block size in the "Edit Value" dialog box.

Step 8

Set the appropriate direction for this block. "PLC to System" will allow write access to parameters.

Step 9

Map module parameters as desired.

Knowledge of Unit Operation Is Assumed

In all cases, the simple principle of 'pass-through' is maintained: there is no attempt to validate a value in terms of the end use of the unit: both familiarity with the Allen-Bradley PanelView functions and knowledge of system operation are assumed.