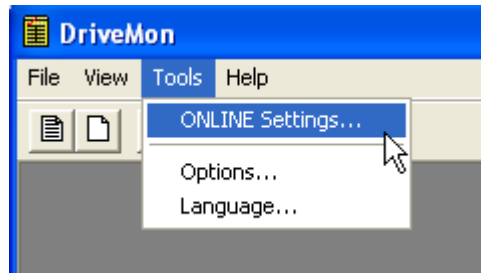
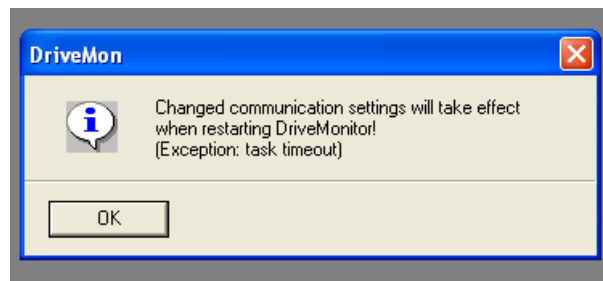


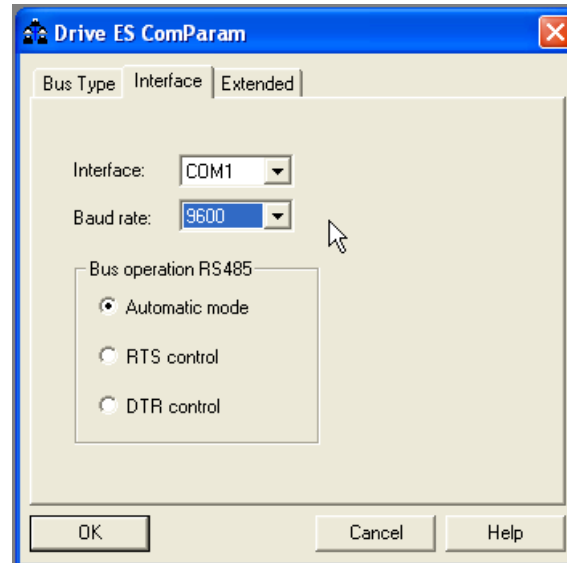
Open DriveMon and access the ONLINE Settings...



You receive a notice that you have to EXIT the software after making a change to the communication settings. Click "OK" to the notice and you will see the ComParam window.



## DriveMon Directions



Go to the "Interface" tab.

Select your COM port and set the Baud rate to 9600 for a new drive "out of the box".

Later on we will change the Baud rate to either 19,200 (for units with keypads on the door) or 38,400.

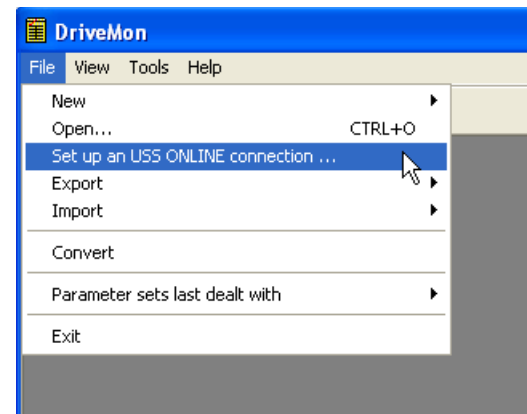
Say "OK" after making your selections.

*NOW – per the notice, you must exit the software and then re-open it!!!*

[After you exit the software and then re-open it]

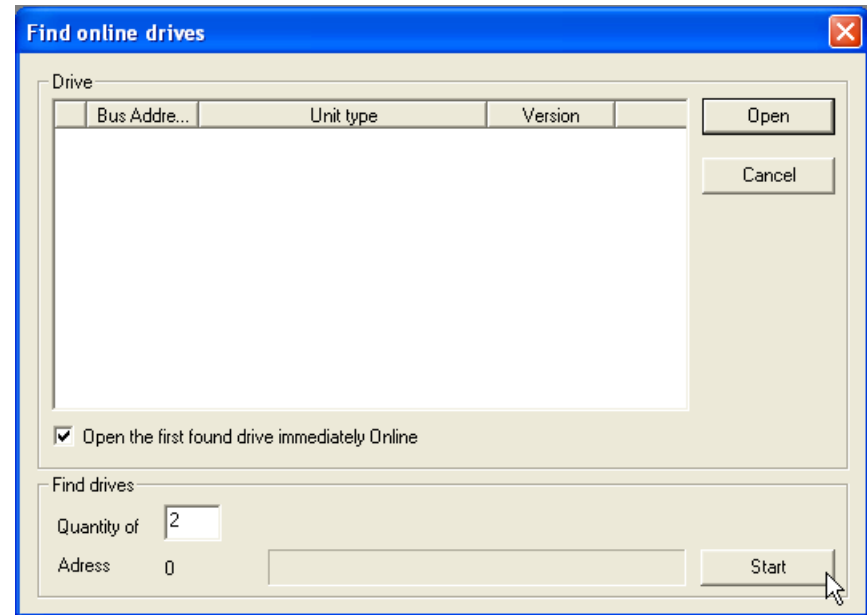
Connect the communication cable between the computer and the drive.

On the File menu, do "Set up an USS ONLINE connection..."

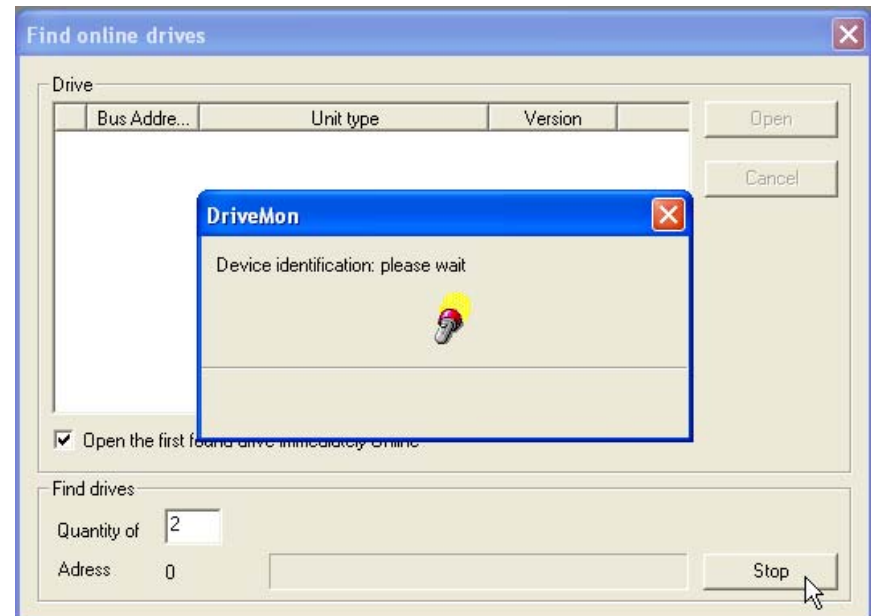


## DriveMon Directions

You will see the “Find online drives” dialog box. Ensure the selection for “Open the first drive” is selected. Click on “Start”.

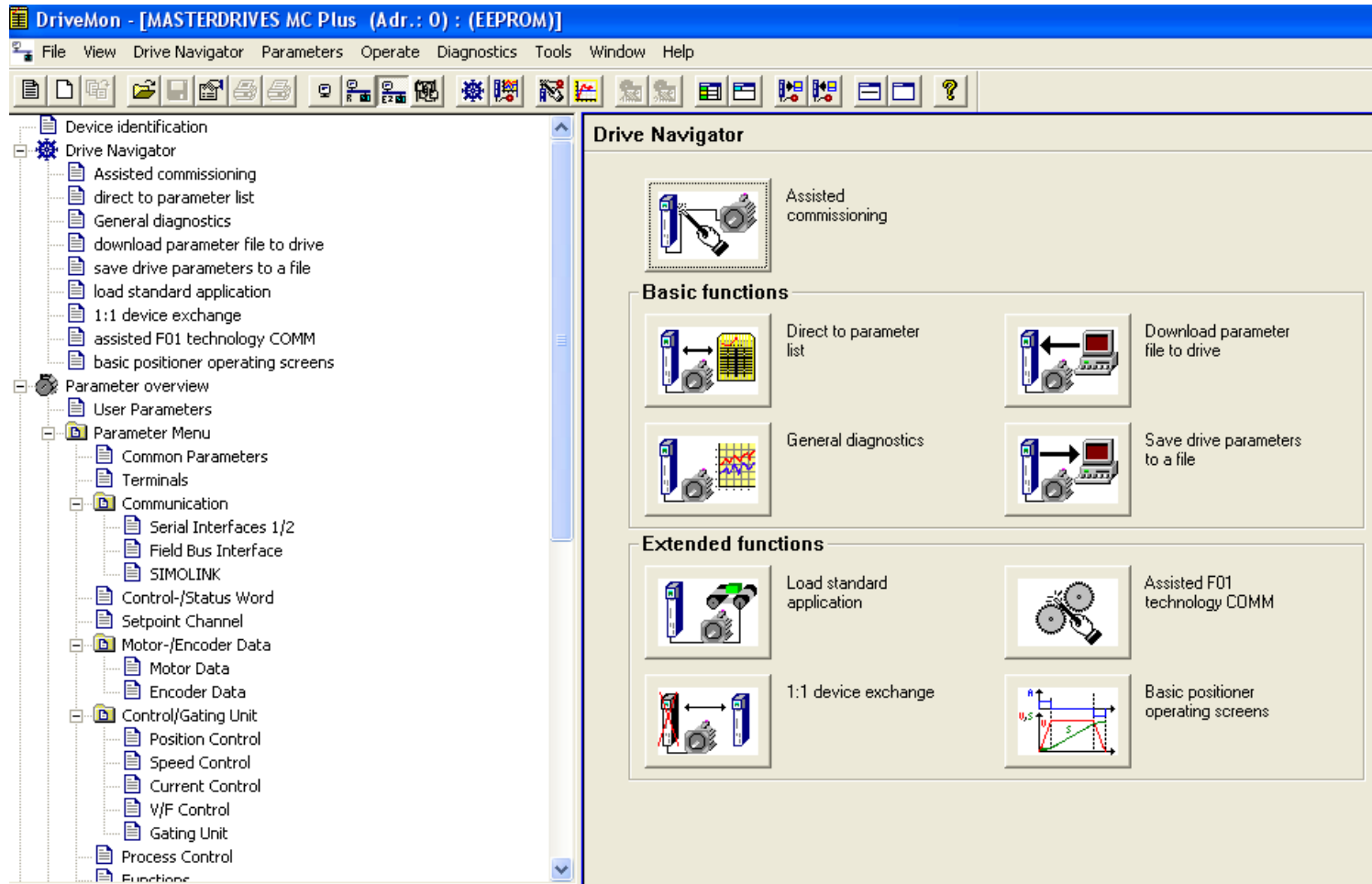


You should see the following as the software identifies the drive for the connection.



## DriveMon Directions

After the connection is established this is what you will see.



## DriveMon Directions

The first thing we need to do is set the baud rate on the drive to a higher speed.  
To do this, look on the left for the Communication Folder and select “Serial Interfaces 1/2”

You will see the parameter for the serial interfaces displayed on the right.  
Find parameter P701 and you will see it is set to a value of “6”, corresponding to the default value of 9600 baud.

The screenshot shows the DriveMon software interface for a MASTERDRIVES MC Plus (Adr.: 0) : (EEPROM). The left sidebar contains a tree view with the following structure:

- Device identification
- Drive Navigator
  - Assisted commissioning
  - direct to parameter list
  - General diagnostics
  - download parameter file to drive
  - save drive parameters to a file
  - load standard application
  - 1:1 device exchange
  - assisted F01 technology COMM
  - basic positioner operating screens
- Parameter overview
- User Parameters
- Parameter Menu
  - Common Parameters
  - Terminals
  - Communication
    - Serial Interfaces 1/2 (selected)
    - Field Bus Interface
    - SIMOLINK

The main window displays a table titled "Serial Interfaces 1/2" with the following data:

P No.	Name		Ind	Index text	Parameter value	D
P700	SCom BusAddr	+	001	Ser.Interface1	0	
P701	SCom Baud	+	001	Ser.Interface1	6 9600 Baud	
P702	SCom PKW #	+	001	Ser.Interface1	127	
P703	SCom PcD #	+	001	Ser.Interface1	2	
P704	SCom TIgOFF	+	001	Ser.Interface1	0	ms
P707	SrcSCom1TmsData	+	001	W01	K32 Status Word 1	
r709	SCom1 RecvData	+	001		0x8c7e	
r710	SCom1 TmsData	+	001		0x4b38	
r738	PKW Order	+	001	ST1 ID/Param#	0x62e2	
r739	PKW Reply	+	001	ST1 ID/Param#	0x42e2	

## DriveMon Directions

Click on the cell for P701's Parameter value and a pop-up window will appear so you can set the baud rate.

- For Line 1 where there are no keypads on the door of the control panel we will set the baud rate parameter P701 to 38,400.
- For Line 2 that has the keypads on the door we can go no higher than 19,200.

In the example below the 38,400 baud rate has been selected.

The screenshot shows the DriveMon software interface. The main window displays a table of serial interfaces. The table has columns: P No., Name, Ind, Index text, and Parameter value. The row for P701 (SCom Baud) is highlighted in green, and its parameter value is 6 9600 Baud. A pop-up window titled 'P701.1 SCom Baud' is open, showing the current value and a list of new values to select from. The list includes 300 Baud, 600 Baud, 1200 Baud, 2400 Baud, 4800 Baud, 6 9600 Baud, 7 19200 Baud, 8 38400 Baud (selected), and 9 57600 Baud. The OK, Cancel, and Help buttons are at the bottom of the pop-up window.

P No.	Name	Ind	Index text	Parameter value
P700	SCom BusAddr	+ 001	Ser.Interface1	0
P701	SCom Baud	+ 001	Ser.Interface1	6 9600 Baud
P702	SCom PKW #	+ 001	Ser.Interface1	127
P703	SCom PcD #	+ 001	Ser.Interface1	2
P704	SCom TlgOFF	+ 001	Ser.Interface1	0
P707	SrcSCom1TmsData	+ 001	W01	K32 Status Word 1
i709	SCom1 RecvData	+ 001		0x8c7e
i710	SCom1 TmsData	+ 001		0x4b38
i738	PKW Order	+ 001	ST1 ID/Param#	0x62e2
i739	PKW Reply	+ 001	ST1 ID/Param#	0x42e2

**P701.1 SCom Baud**

Current value:  
6 9600 Baud

New value:

- 1 300 Baud
- 2 600 Baud
- 3 1200 Baud
- 4 2400 Baud
- 5 4800 Baud
- 6 9600 Baud
- 7 19200 Baud
- 8 38400 Baud
- 9 57600 Baud

OK Cancel Help

## DriveMon Directions

After making the baud rate selection, click “OK” to set the baud rate.

You will immediately see an error because once the baud rate in the drive has been changed your computer will lose the connection.

This is normal.

The screenshot shows the DriveMon software interface. The main window displays a tree view on the left and a table of serial interfaces on the right. The table is titled 'Serial Interfaces 1/2' and contains the following data:

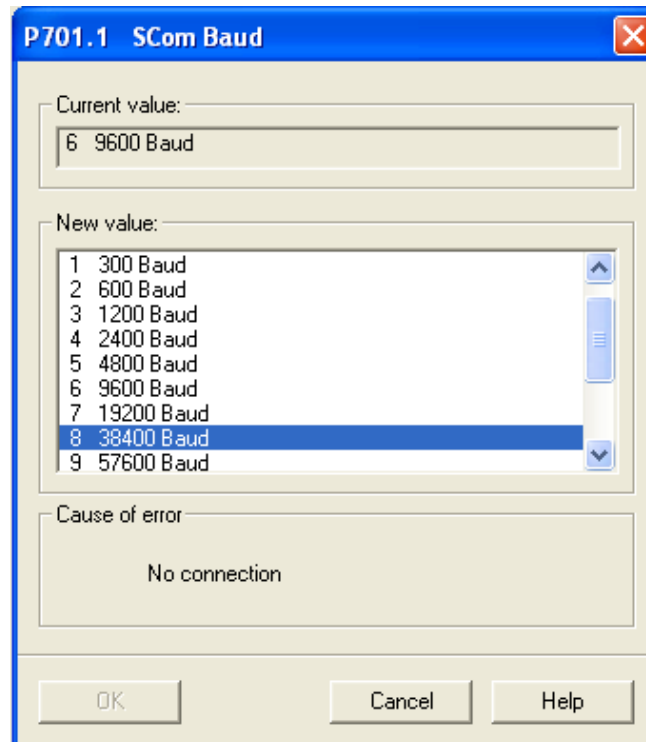
P No.	Name	+	Ind	Index text	Parameter value
P700	SCom BusAddr	+	001	Ser.Interface1	No connection
P701	SCom Baud	+	001	Ser.Interface1	6 9600 Baud
P702	SCom PKW #	+	001	Ser.Interface1	127
P703	SCom PcD #	+	001	Ser.Interface1	2
P704	SCom TlgOFF	+	001	Ser.Interface1	0
P707	SrcSCom1TmsData	+	001	w01	K32 Status Word 1
r709	SCom1 RecvData	+	001		0x8c7e
r710	SCom1 TmsData	+	001		0x4b38
r738	PKW Order	+	001	ST1 ID/Param#	0x62e2
r739	PKW Reply	+	001	ST1 ID/Param#	0x42e2

A dialog box titled 'P701.1 SCom Baud' is open in the foreground. It shows the current value as '6 9600 Baud' and a list of new values to choose from:

- 1 300 Baud
- 2 600 Baud
- 3 1200 Baud
- 4 2400 Baud
- 5 4800 Baud
- 6 9600 Baud
- 7 19200 Baud
- 8 38400 Baud
- 9 57600 Baud

The 'Cause of error' field shows '<<<COM\_ERR 0x800000>>>'. The dialog box has 'OK', 'Cancel', and 'Help' buttons at the bottom.

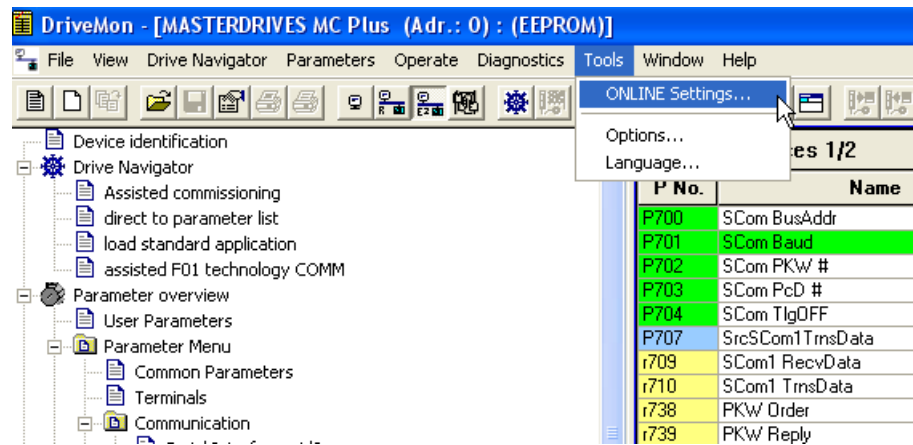
After you click "OK" a second time the following will appear.  
Click "Cancel" to exit the dialog.



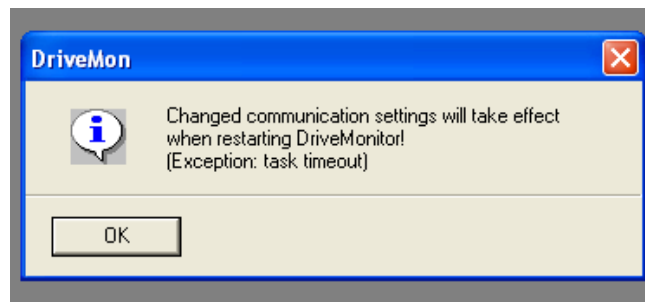


## DriveMon Directions

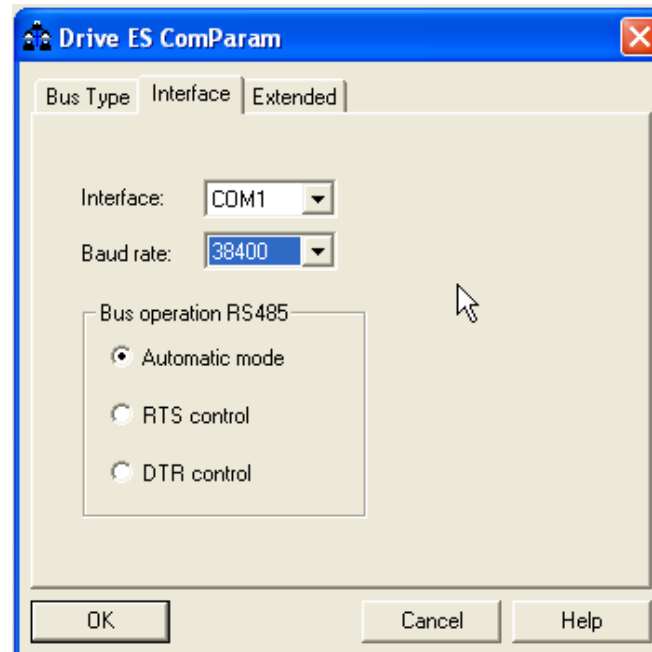
At this point you have changed the baud rate in the drive and now we need to set the computer to the same baud rate. In the above example we set the drive to 38,400 so we will now set the computer to 38,400. (This is just a repeat of what we did on the first few pages.)



Here is the same warning about having to restart the software after making changes.

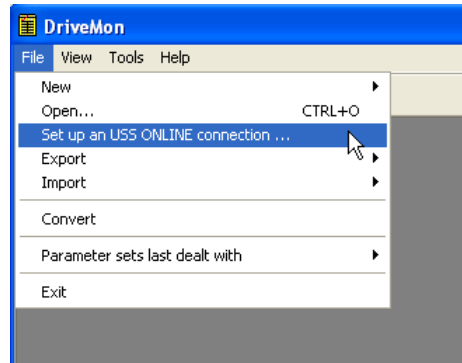


Select the baud rate to match the one you just set in the drive.  
Say "OK" after making your selections.

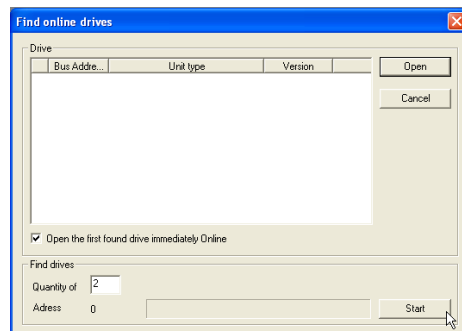


*NOW – per the notice, you must exit the software and then re-open it!!!*

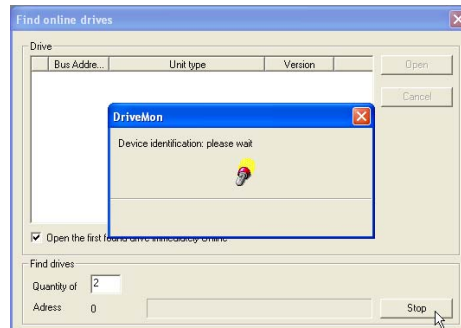
[After you exit the software and then re-open it]  
On the File menu, do “Set up an USS ONLINE connection...”



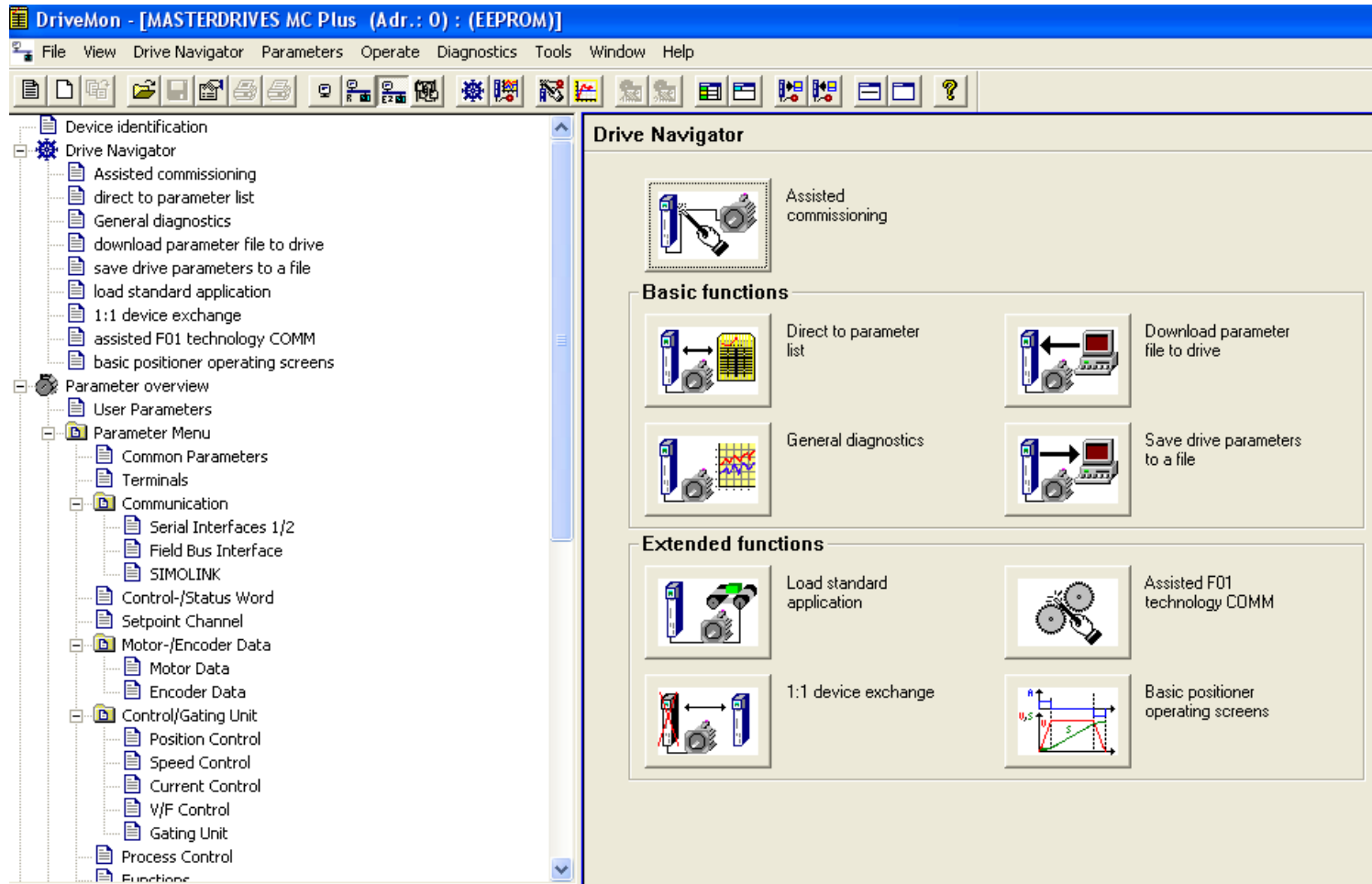
You will see the “Find online drives” dialog box.  
Ensure the selection for “Open the first drive” is selected.  
Click on “Start”.



You should see the following as the software identifies the drive for the connection.



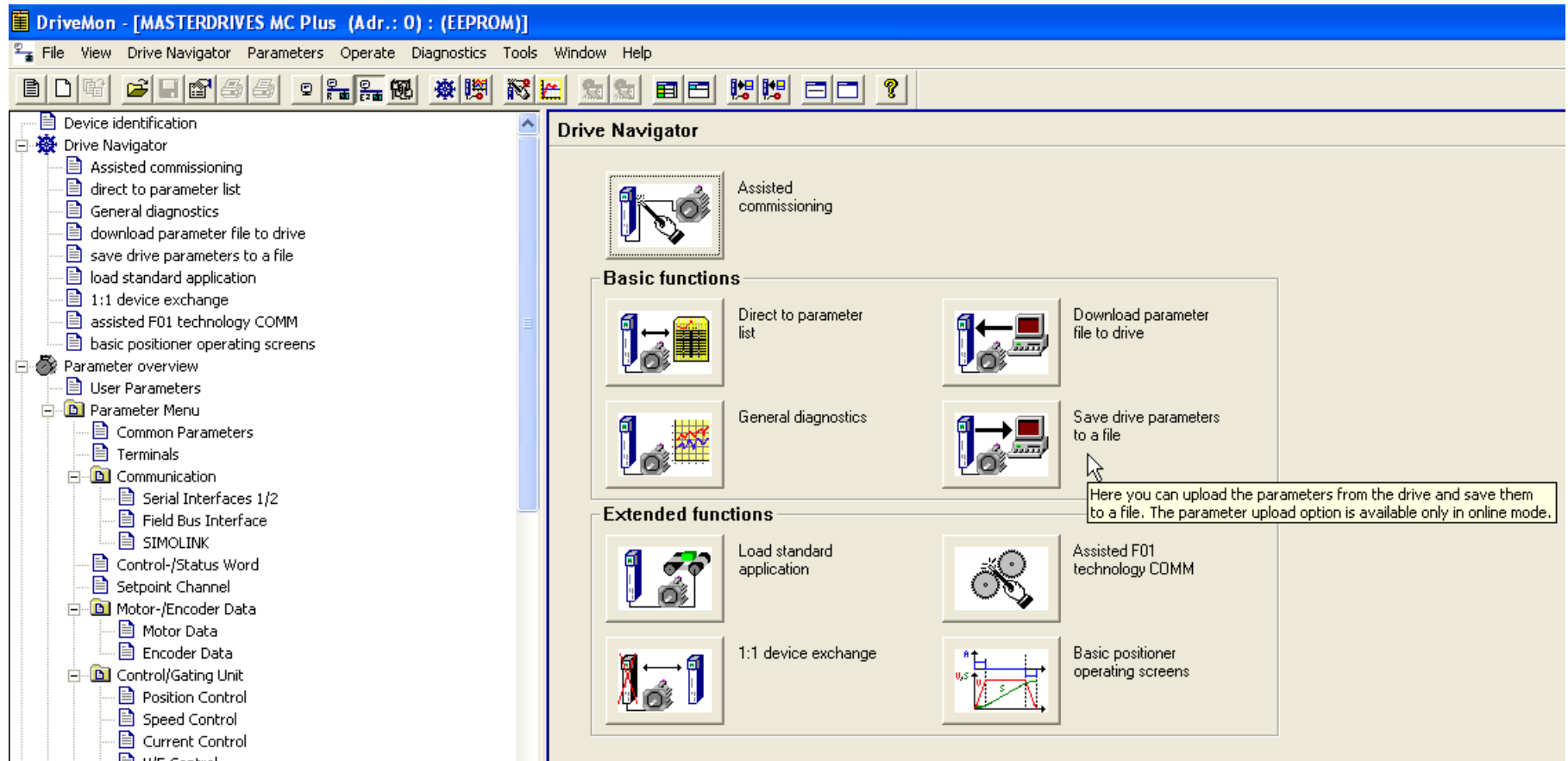
After the connection is established this is what you will see.



## DriveMon Directions

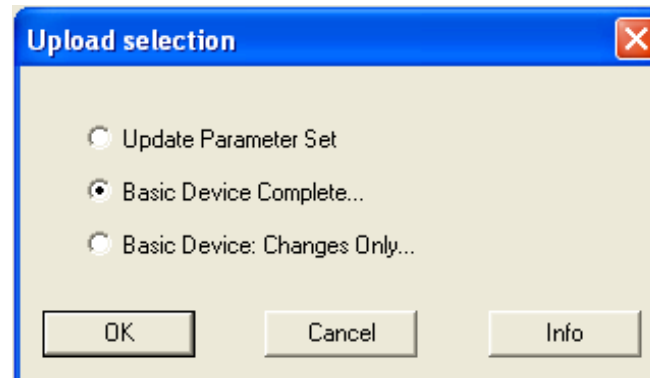
At this point we have set the drive to the baud rate of 38,400 and then set the computer to match. Then we connect to the drive and now we are ready to either upload or download.

First is the example for uploading. Click on “Save drive parameters to a file”.

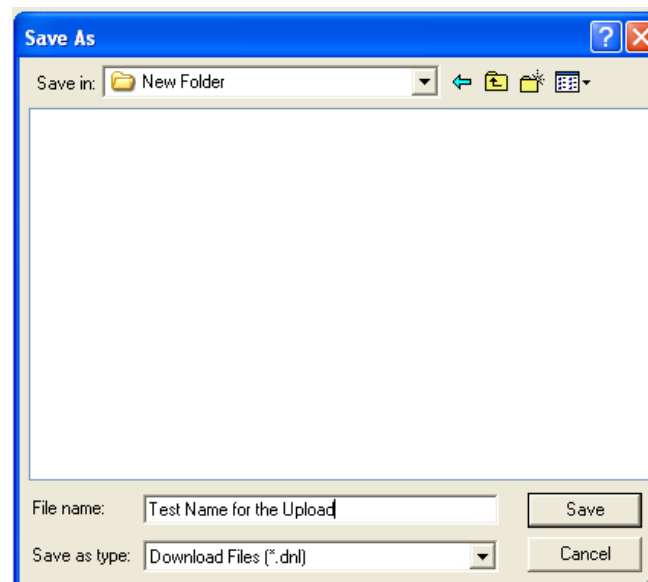


## DriveMon Directions

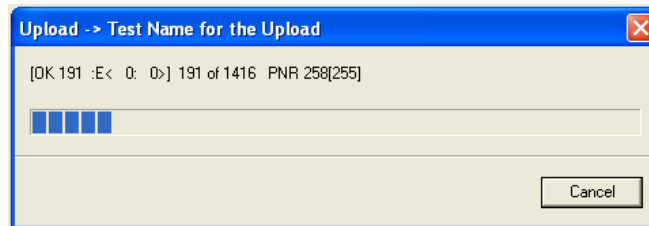
You will be prompted for the upload selection. Select “Basic Device Complete...”



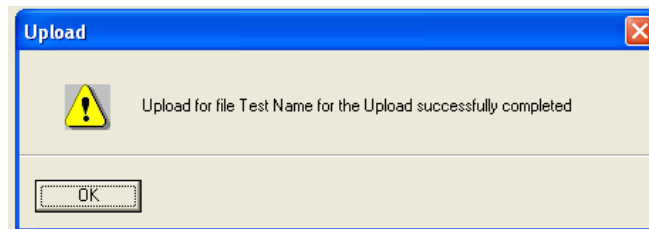
When prompted for the filename put in whatever you want and then click “Save”.



The upload will begin.




You will receive the following notice if the upload is complete.




Now we will download.

## Drive Navigator

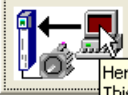


Assisted commissioning

### Basic functions

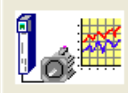


Direct to parameter list

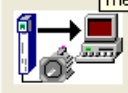


Download parameter file to drive

Here you can download the parameters from a file to the drive. This process does not alter the settings of the communication interface. The parameter download option is available only in online mode.




General diagnostics




Save drive parameters to a file

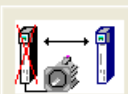
### Extended functions



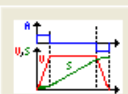
Load standard application



Assisted F01 technology COMM



1:1 device exchange

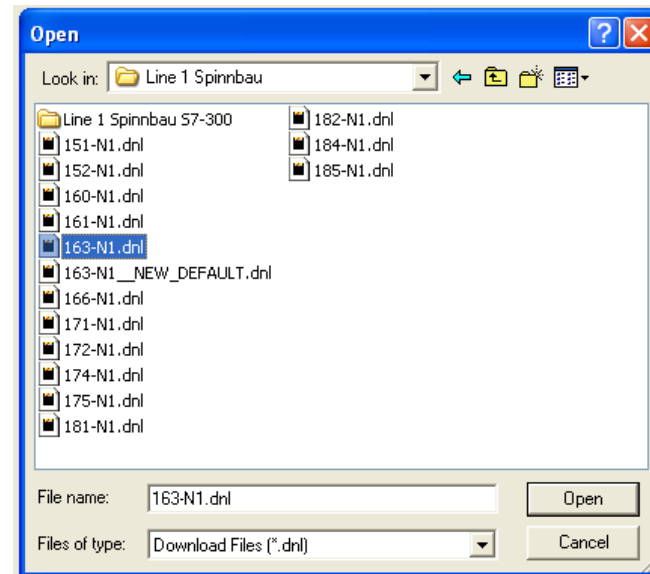


Basic positioner operating screens

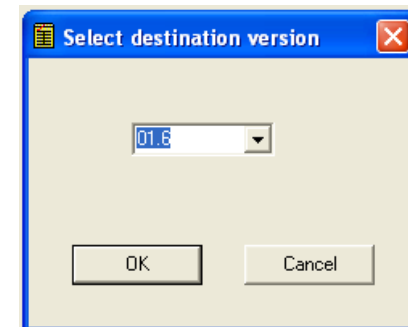
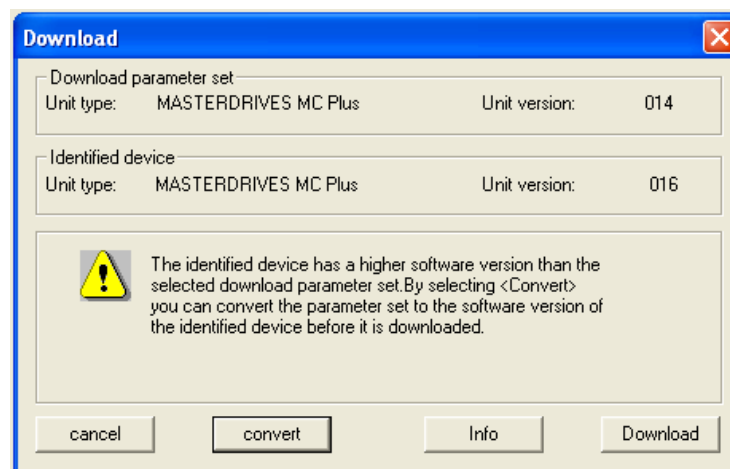


## DriveMon Directions

Select the file you want to download to the drive.



In this example the firmware on the new drive is newer than the old drive.  
We will select "convert", and select the version that matches the firmware in the new drive.



## DriveMon Directions

Here are the conversion results.  
Say "OK" to close.

**DriveMonitor conversion**

Display columns source parameters: ☒ Unit ☒ Name ☒ Index text

Display columns destination parameters: ☒ Unit ☒ Default ☒ Name ☒ Index text

Display parameter values: ☒ All ☐ = ☐ <> ☐ Only contained in source/destination version

Source: MASTERDRIVES MC Plus V01.4 (D:\\_PLC\EAGLE\S02218\_

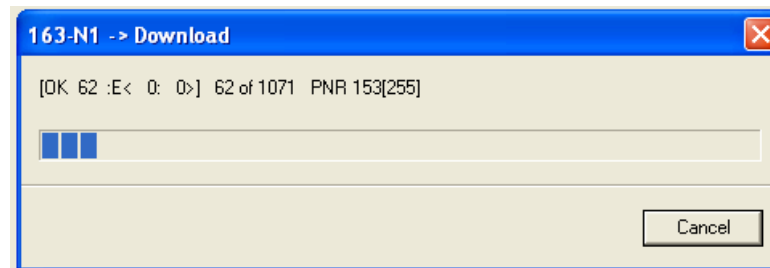
Destination: MASTERDRIVES MC Plus V01.6 (C:\DOCUME~1\pblanch\LOCALS~1\Temp\temp.i

PNo	In	Parameter value	Unit	N	PNo	In	Parameter value	Unit	Default	Name
1		14 Operation			1		14 Operation		0	Drive Status
2		-1239	min <sup>-1</sup>	n(act)	2		-1239	min <sup>-1</sup>	0	n(act)
4		9.3	A	Output Amps	4		9.3	A	0.0	Output Amps
6		645	V	DC Bus Volts	6		645	V	0	DC Bus Volts
7		-35.5	%	Motor Torque	7		-35.5	%	0.0	Motor Torque
8		0	%	Motor Utilizat.	8		0	%	0	Motor Utilizat.
9		71	°C	Motor Temperat.	9		71	°C	0	Motor Temperat.
10		4	%	Drive Utilizat.	10		4	%	0	Drive Utilizat.
12		1 BiCo-DS 1		Active BiCo DSet	12		1 BiCo-DS 1		0	Active BiCo DSet
13		1 FuncDSet 1		Active FuncDSet	13		1 FuncDSet 1		0	Active FuncDSet
30	1	0		Src Disp Binec	30	1	0		0000	Src Disp Binec
31	1	0		Display Binector	31	1	0		0	Display Binector
32	1	0		Src Disp Conn	32	1	0		0000	Src Disp Conn
33	1	0.000	%	Display Conn	33	1	0.000	%	0.000	Display Conn
34	1	0		SrcDispVoltsConn	34	1	0		0000	SrcDispVoltsConn
35	1	0.0	V	Disp Volts Conn	35	1	0.0	V	0.0	Disp Volts Conn
36	1	0		SrcDispAmpsConn	36	1	0		0000	SrcDispAmpsConn
37	1	0.00	A	Disp Amps Conn	37	1	0.00	A	0.00	Disp Amps Conn
38	1	0		Src DispTorqConn	38	1	0		0000	Src DispTorqConn
39	1	0.00	Nm	Disp Torq Conn	39	1	0.00	Nm	0.00	Disp Torq Conn
40	1	11		SrcDisp SpdConn	40	1	11		0000	SrcDisp SpdConn
41	1	-14.8	min <sup>-1</sup>	Disp Speed Conn	41	1	-14.8	min <sup>-1</sup>	0.0	Disp Speed Conn
42	1	0		SrcDispFreqConn	42	1	0		0000	SrcDispFreqConn
43	1	0.00	Hz	Disp Freq Conn	43	1	0.00	Hz	0.00	Disp Freq Conn
44	1	0		SrcDisp DecConn	44	1	0		0000	SrcDisp DecConn
45	1	0		Disp DecConn	45	1	0		0	Disp DecConn
46	1	0		SrcDisp HexConn	46	1	0		0000	SrcDisp HexConn
47	1	0x0		Disp Hex Conn	47	1	0x0		0x0	Disp Hex Conn
48		2		PMU OperDisp	48		2		2	PMU OperDisp
49	1	4		OP OperDisp	49	1	4		4	OP OperDisp
50		1 English		Language	50		1 English		0	Language
53		0000000000000110		Parameter Access	53		0000000000000110		0000000000000111	Parameter Access
54		0x4		Requester	54		0x4		0x0	Requester
60		7 Upr/tr. Access		Menu Select	60		7 Upr/tr. Access		1	Menu Select
69	1	1.4		SW Version	69	1	1.4		1.6	SW Version
70		20 23-8TP50		Order No. 6SE70.	70		20 23-8TP50		0	Order No. 6SE70.
71		650	V	Line Volts	71		650	V	400	Line Volts

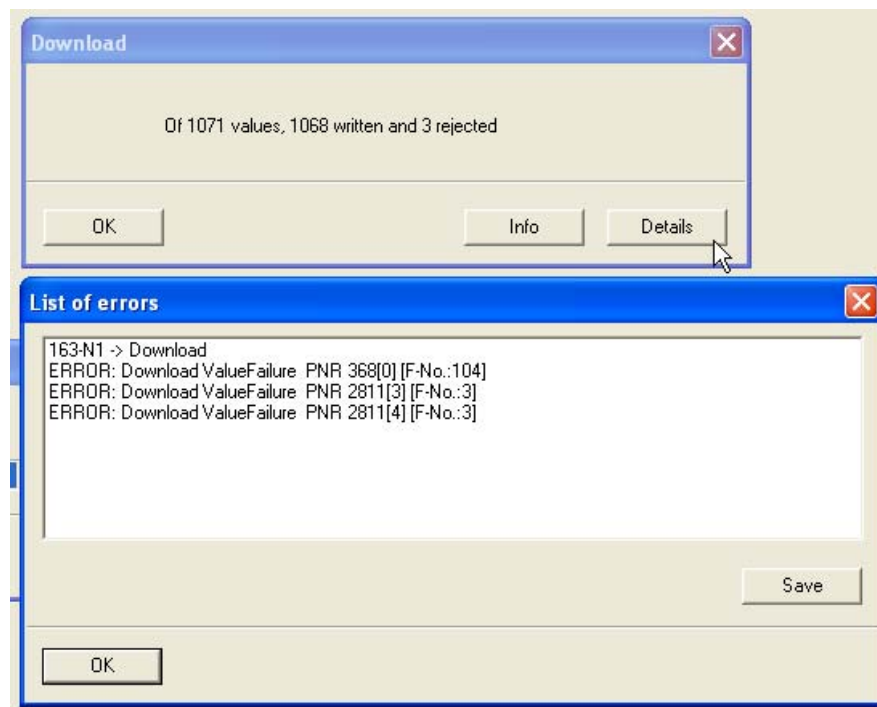
OK Cancel

## DriveMon Directions

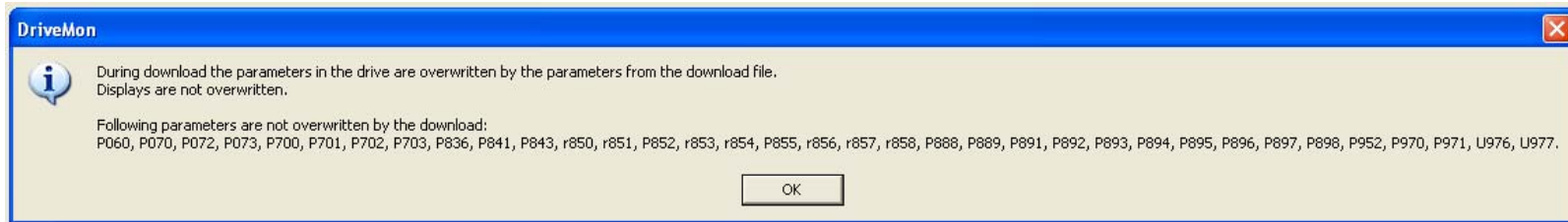
After closing the conversion results the download will start.



It is perfectly normal for some values to be rejected.  
The list of errors is displayed when you select "Details". You can select "Save" to save it to a text file.



If you select “Info” on the Download results window, more information is provided about the parameters that are not overwritten.



Here is what I can see about the parameters that were not overwritten:

### **P368 Select Setp Src**

Function parameter for selecting a setpoint and command source which is to be parameterized when a quick parameterization (P370) is carried out.

- 0 = PMU
- 1 = Analog input and terminal strip
- 2 = Fixed setpoints and terminal strip
- 3 = Motor operated potentiometer and terminal strip
- 4 = USS
- 5 = SIMOLINK (cannot currently be implemented)
- 6 = PROFIBUS (CBP required)
- 7 = OP1S and fixed setpoints
- 8 = OP1S and motor operated potentiometer

*In the example drive the PROFIBUS option board is not installed so it is not possible to set P368 to a value of “6”. This must be done in the field after the option board is installed.*

## DriveMon Directions

After viewing the download results click “OK” to exit all the windows.

You are now online with the drive. Click the “Offline” toolbar button to go offline.

