vacon DRIVEN BY DRIVES	DOKUMENTIN NIMI / DOCUMENT NAME **NCDrive & NCLoad Advanced Use.doc**	
TALLENNETTU/SAVED **5/19/2005 12:30 PM**	PAINOS / REVISION **A**	TEKI / PREPARED **AhRa**

B&P Elektromotoren

NCDrive & NCLoad Advanced use

REVISION HISTORY:

REV	DATE/ PREPARED	NOTES
A	2005-5-19 AhRa	First draft…. !

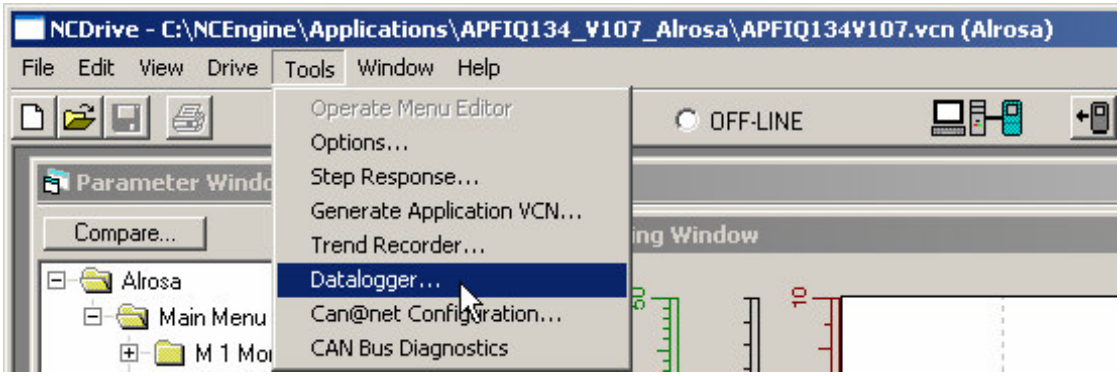
Table of content:

1 Datalogger

Datalogger is used for tracking situations what are happening very rarely and/or faster monitor is needed than RS232 can offer.

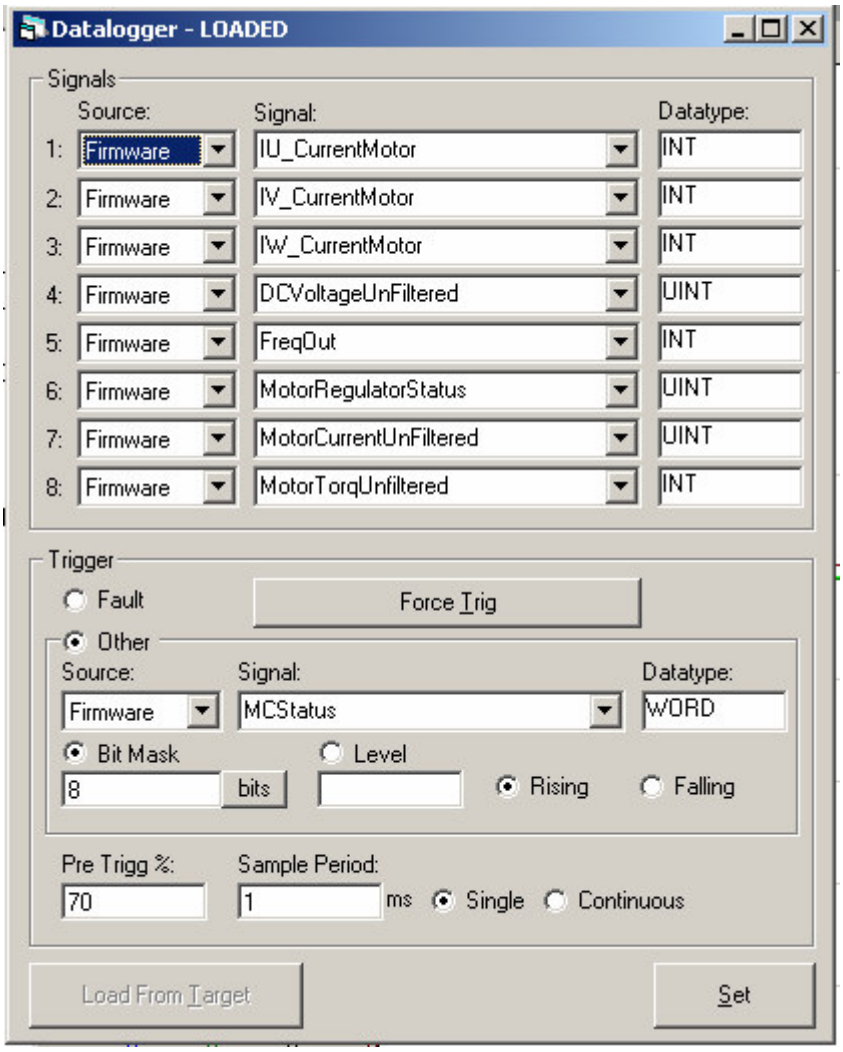
NCDrive don not need to be connected to drive when Datalogger have been set.

1.1 Start Datalogger

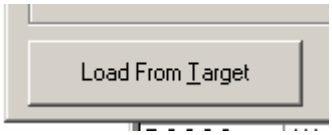


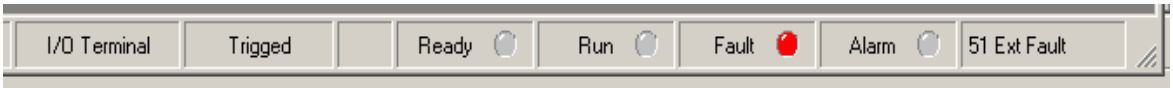
1.2 Datalogger window

There is 8 signal by default monitored in drive.

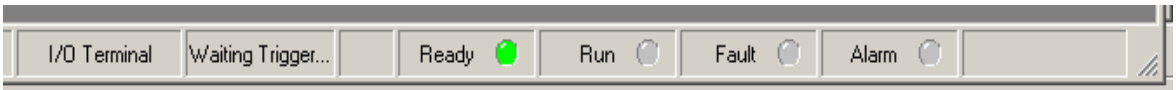


When using default setting and drive have been triggered “Load From Target” is active and in status bar of NCDrive main window is text “Trigged”.





Status will go to waiting trigger when fault is reset. (Continuous mode)



Default trigger is form MCStatus where have been used bit mask “8”. This means that bit 3 will cause Datalogger to trig.

Pre Trigg 70 %: Drive is storing 70 % of data before fault have happened and 30 % data after the fault have happened.

Sample Period 1 ms: Drive is storing data from the signal every 1 ms.

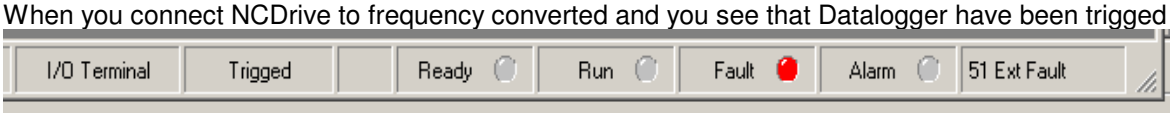
Single: Drive will not start the Datalogger again even is reset is pressed, Datalogger is needed to start by pressing “SET” from the Datalogger.

Continuous: Drive starts to record data again when fault is reset.

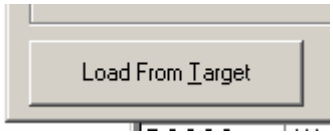
	MCStatus	Status Word	MotorRegulatorStatus
b0	Ready		Motoring Current
b1	Run	Ready	Generator Current
b2	Counterclockwise	Run	Motoring Torque
b3	Fault	Fault	Generator Torque
b4	Warning		Over Voltage
b5	At Reference Speed		Under Voltage
b6	At Zero Speed	Run Enable	
b7	Flux Ready	Warning	
b8	TCSpeedLimitActive		
b9	DetectedEncoderDirection		
b10	UVFastStop		
b11	DC brake active	DC Brake	
b12		Run Request	
b13		Limit Regulator	
b14			
b15			

1.3 Saving Datalogger data

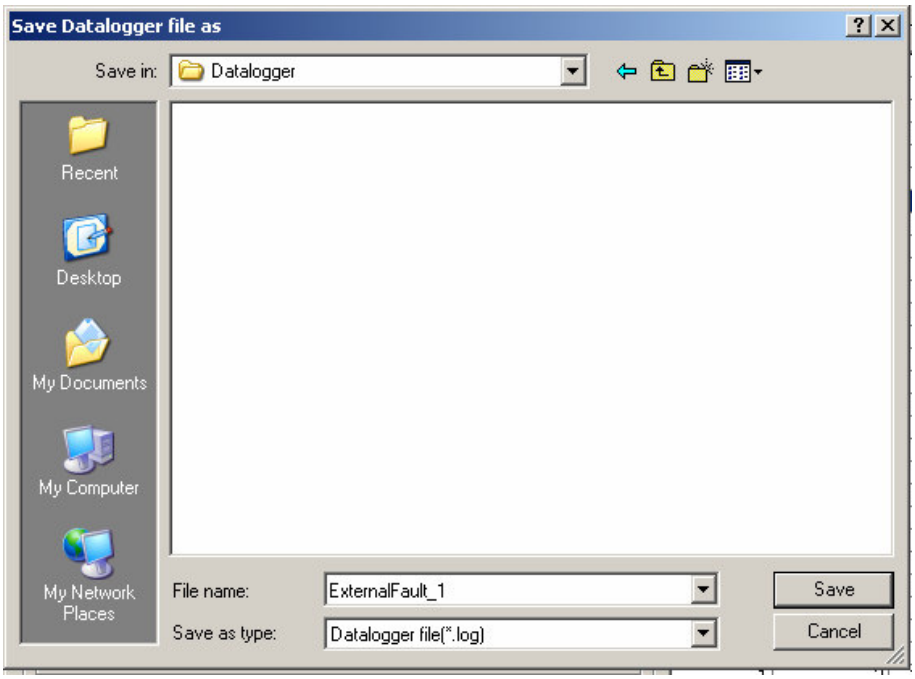
When you connect NCDrive to frequency converted and you see that Datalogger have been trigged



you just need to open Datalogger form the tools menu, and press

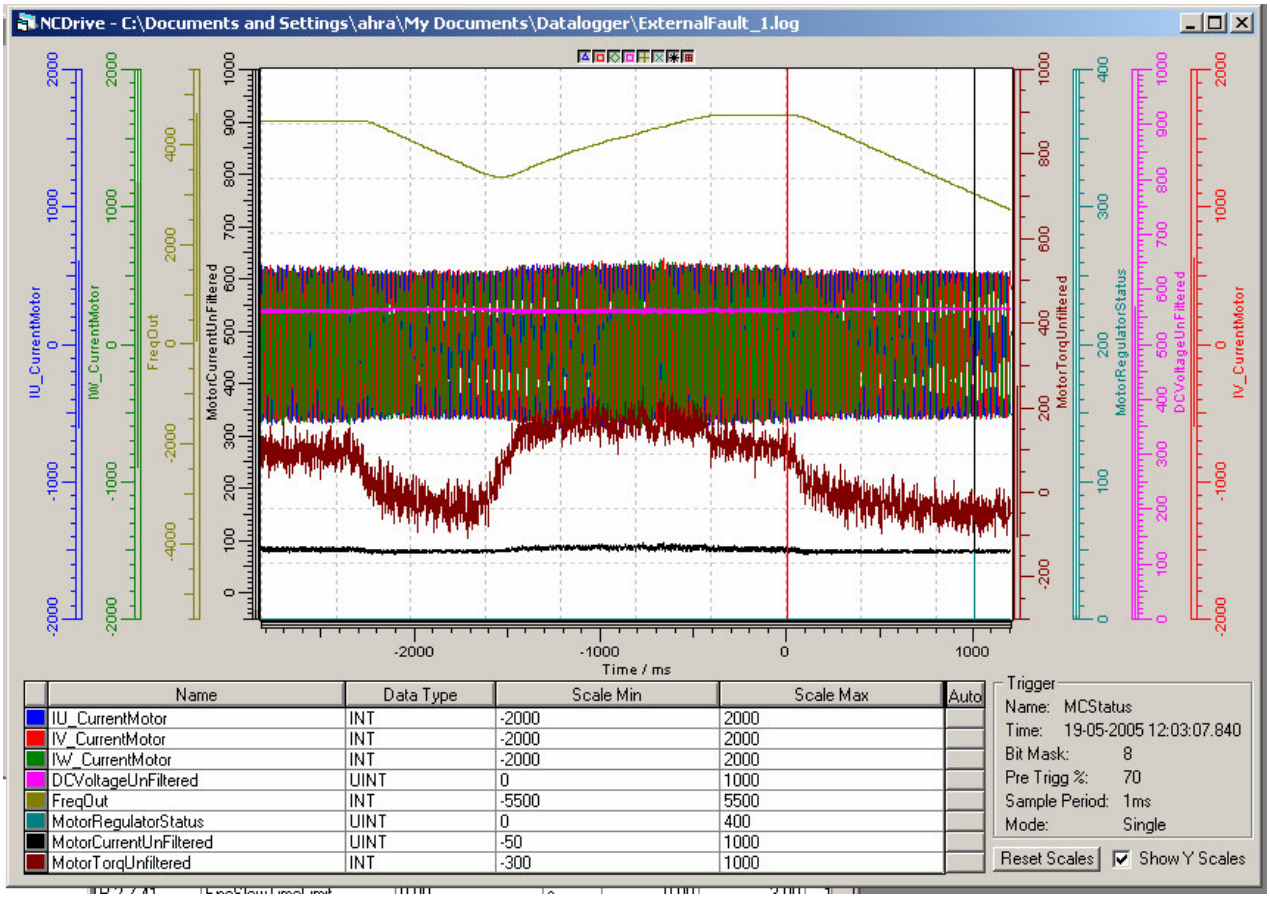


Then NCDrive will ask where you wan to store this Datalogger file. File needs to be loaded to PC before you can monitor it.



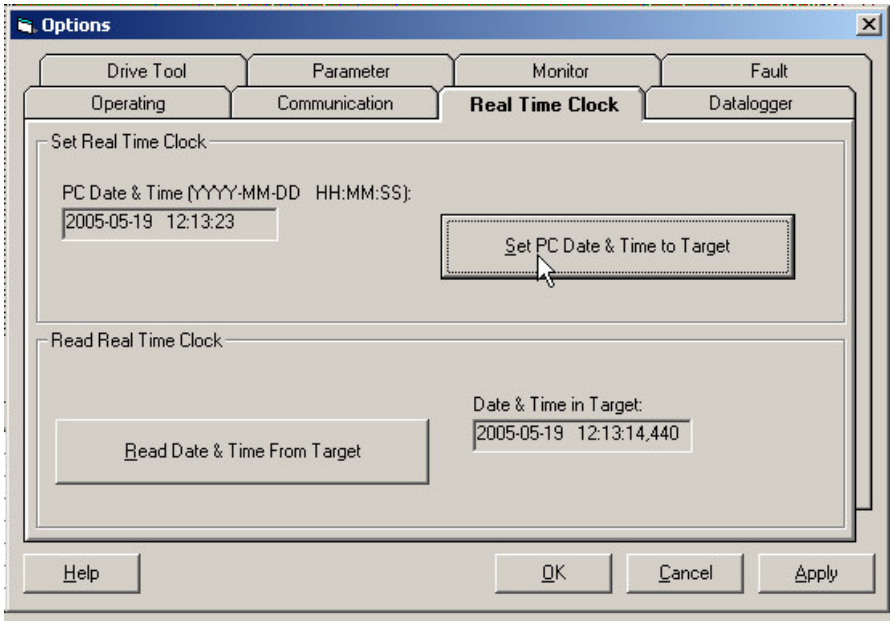
When name have been given to file NCDrive start to upload Datalogger file from the drive.

1.4 Monitoring the data



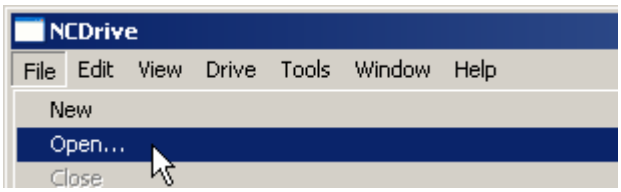
Monitoring the data is same as using normal Monitoring window, see NCDrive Standard use manual.

If real time clock have been set to drive, you can see the actual time when fault have been occurred.

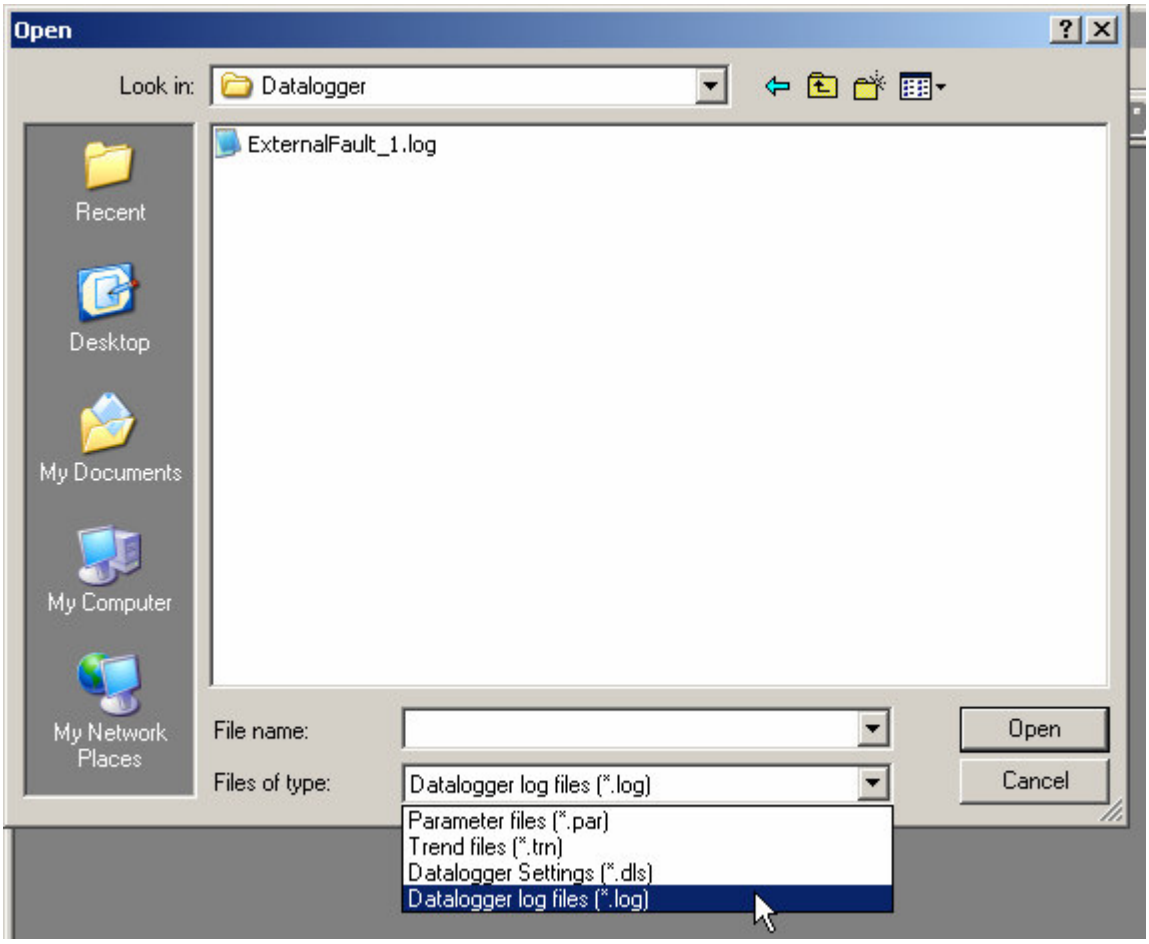


1.5 Opening the Datalogger file.

Datalogger file can be opened in normal way



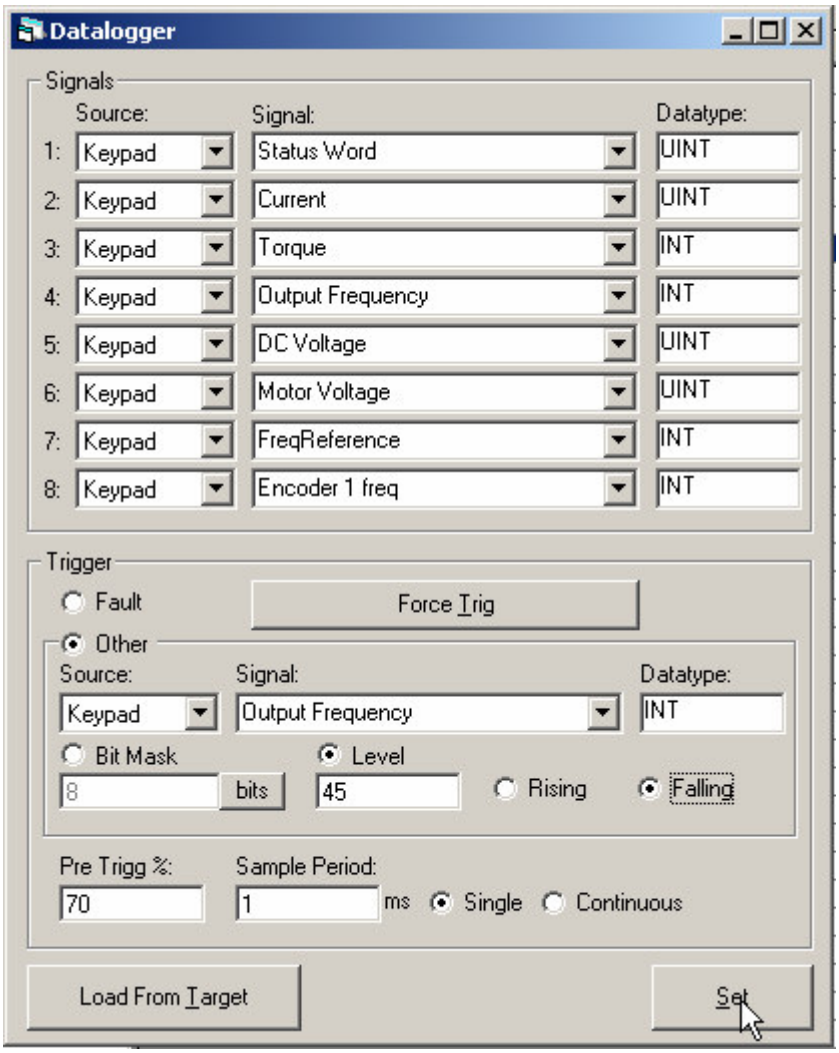
You just need to select the file type *.log



2 Setting new signal for data logger.

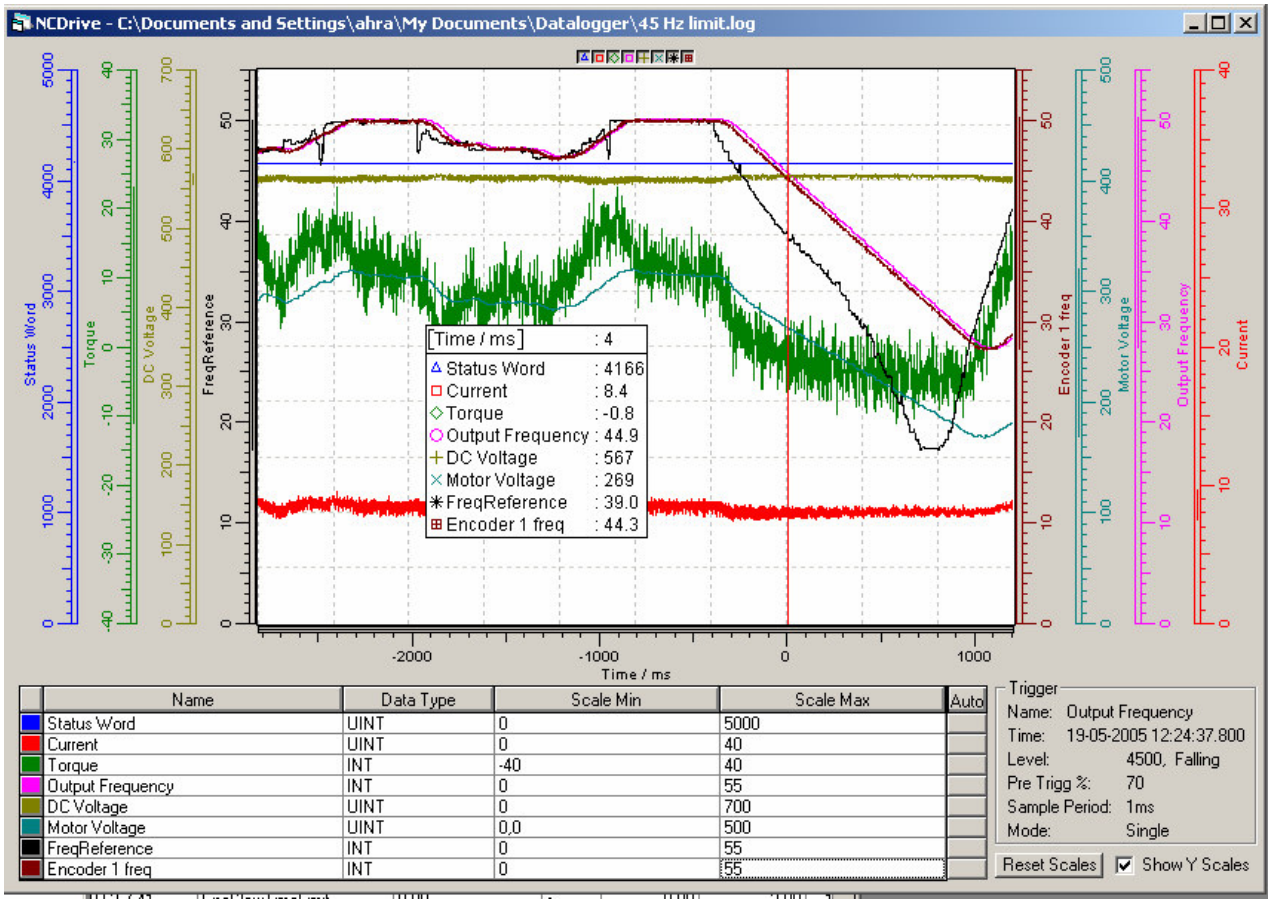
Here we are setting Datalogger to trig when output frequency is coming under 45 Hz and we are using signal from Application Status Word Document.

Now you can select Source as Keypad because these signals are on the monitoring page.



When signal have been selected press SET and you can disconnect the NCDrive.

And in logger five we can see that zero time is in where output frequency goes below 45 Hz



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