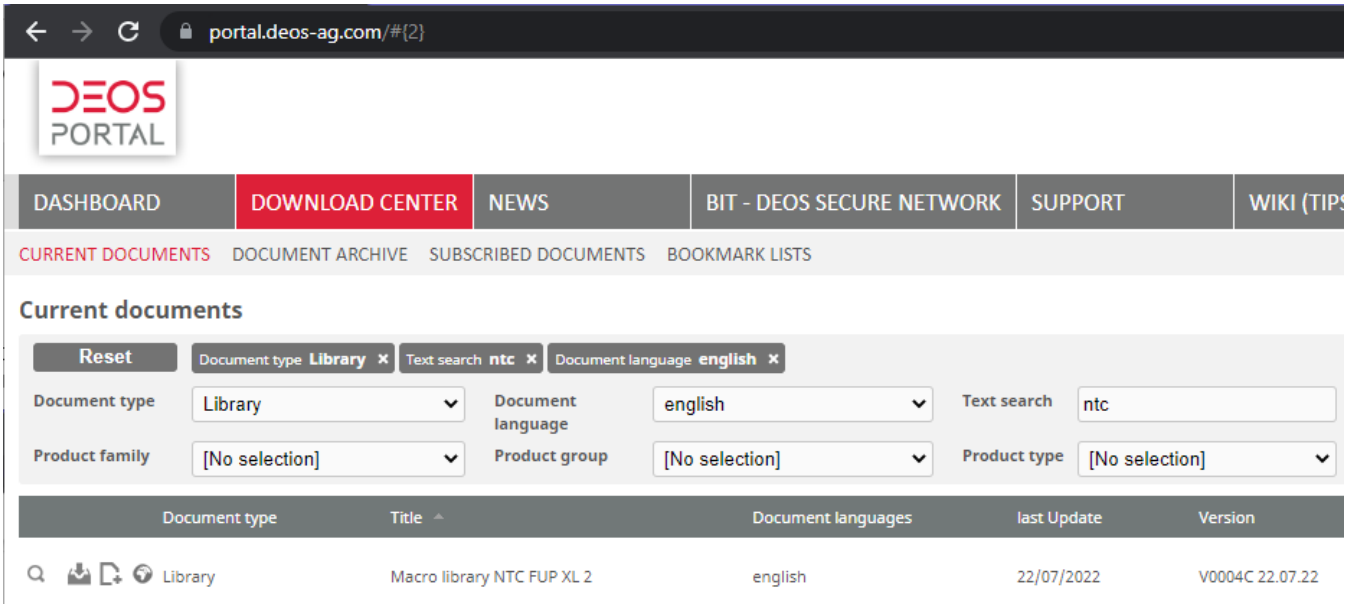
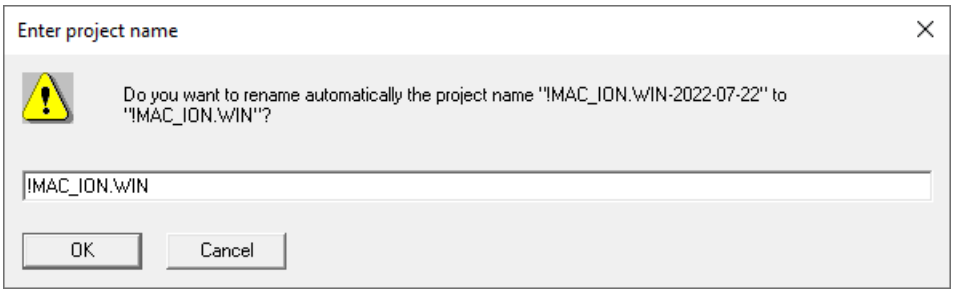
TT220902 – FUP - NTC Sensor

1. First, download the NTC macro library from DEOS portal. Click on it and you can see the password to unzip the file in the “Comment”.



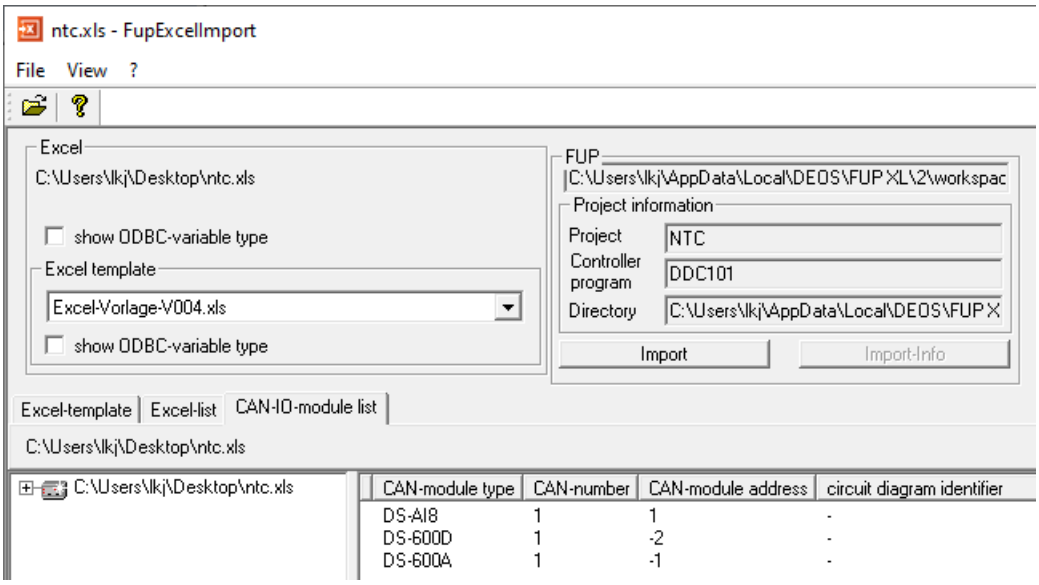
2. Import “!MAC_ION.WIN” library in FUP.



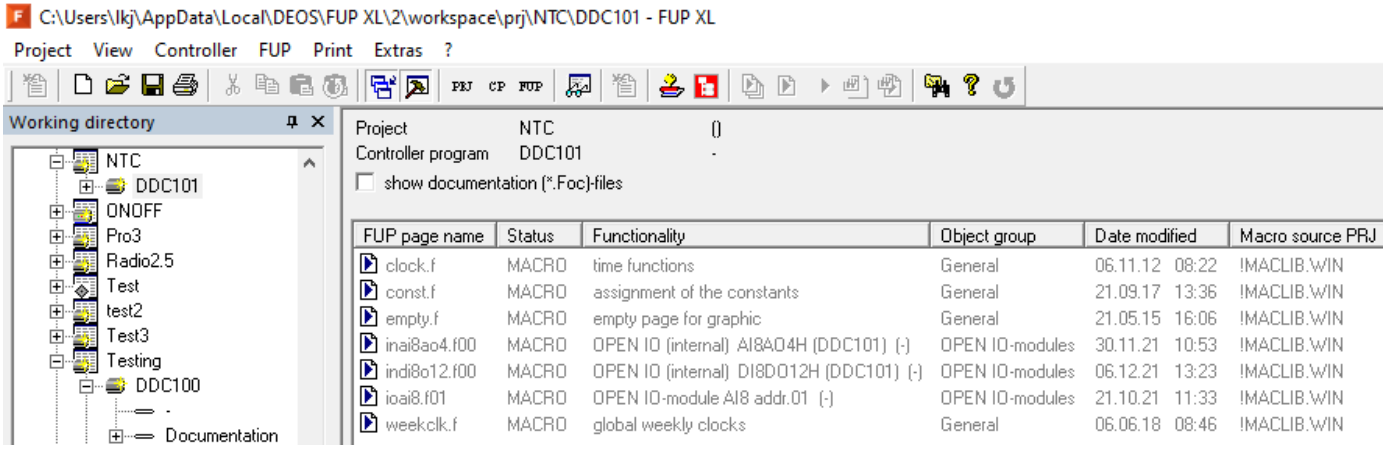
3. Create the Excel import template as usual. Select “0-10V” for AI points first, will change it later.

	Programmer	Michael		last modified	1/8/2014	FupExcelimport- File (for the formular Excel-formular V004)			
	CAN-No. (1 or	panal identifier	module type	modul e-addre	terminal	terminal description – identifier e.g. AHU2\Fan Fault Status title	terminal description	sensortype (34),(17),(162),(177),	copy maclib macro	extension number
	1	-	DS-600A	99	AI0		AHU Return Air Temperatur	(17 0-10V)		
	1	-	DS-600A	99	AI1		AHU Return Air CO2	(17 0-10V)		
	1	-	DS-600A	99	AI2		AHU Return Air Humidity	(17 0-10V)		
	1	-	DS-600A	99	AI3		-			
	1	-	DS-600A	99	AI4		-			
	1	-	DS-600A	99	AI5		-			
	1	-	DS-600A	99	AI6		-			
	1	-	DS-600A	99	AI7		-			
									copy Template macro	
	1	-	DS-600A	99	AO0		AHU Cooling Valve			
	1	-	DS-600A	99	AO1		AHU Fan Speed			
	1	-	DS-600A	99	AO2		-			
	1	-	DS-600A	99	AO3		-			
									copy maclib macro	
	1	-	DS-600D	99	DI0		AHU Supply Fan Status			
	1	-	DS-600D	99	DI1		AHU Supply Fan Trip			
	1	-	DS-600D	99	DI2		AHU Auto/Manual			
	1	-	DS-600D	99	DI3		AHU Filter			
	1	-	DS-600D	99	DI4		-			
	1	-	DS-600D	99	DI5		-			
	1	-	DS-600D	99	DI6		-			
	1	-	DS-600D	99	DI7		-			
									copy maclib macro	
	1	-	DS-600D	99	DO0		AHU Supply Fan Control			
	1	-	DS-600D	99	DO1		-			
	1	-	DS-600D	99	DO2		-			
	1	-	DS-600D	99	DO3		-			
	1	-	DS-600D	99	DO4		-			
	1	-	DS-600D	99	DO5		-			
	1	-	DS-600D	99	DO6		-			
	1	-	DS-600D	99	DO7		-			
	1	-	DS-600D	99	DO8		-			
	1	-	DS-600D	99	DO9		-			
	1	-	DS-600D	99	DO10		-			
	1	-	DS-600D	99	DO11		-			
	CAN-No. (1 or	panal identifier	module type	modul e-addre	terminal	terminal description – identifier e.g. AHU2\Fan Fault Status title	terminal description	sensortype (34),(17),(162),(177),	copy FUP page macro	extension number
	1	-	DS-AI8	1	AI0		AI0	(17 0-10V)		
	1	-	DS-AI8	1	AI1		AI1	(17 0-10V)		
	1	-	DS-AI8	1	AI2		AI2	(17 0-10V)		

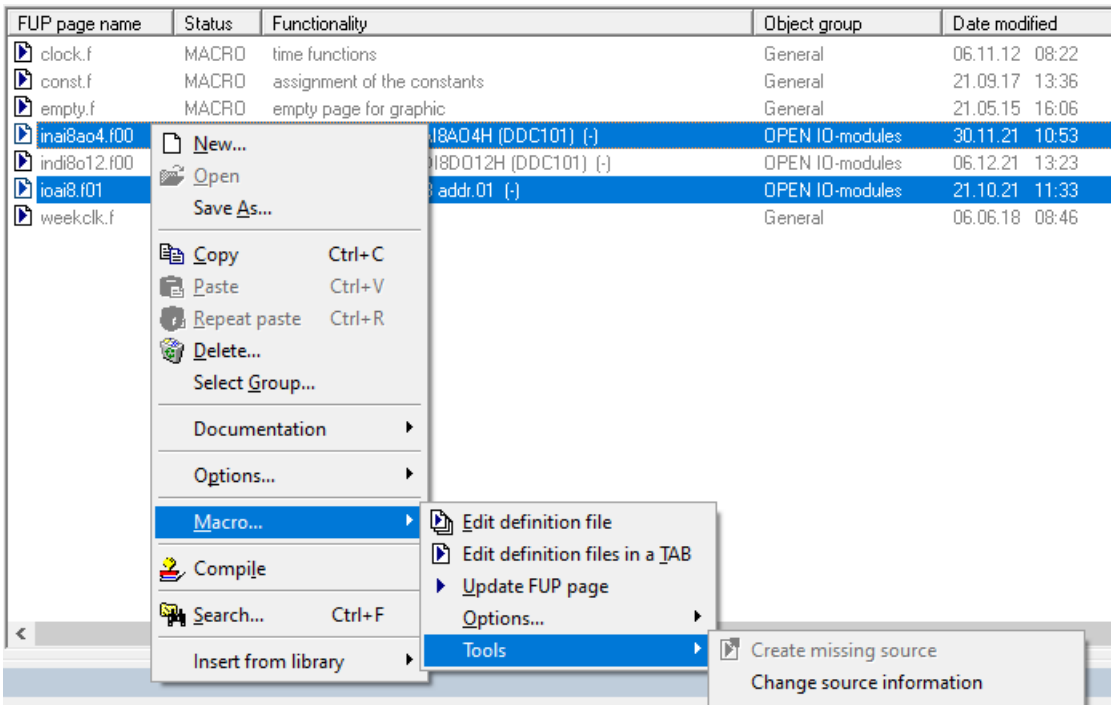
4. Import the Excel template in FUP.



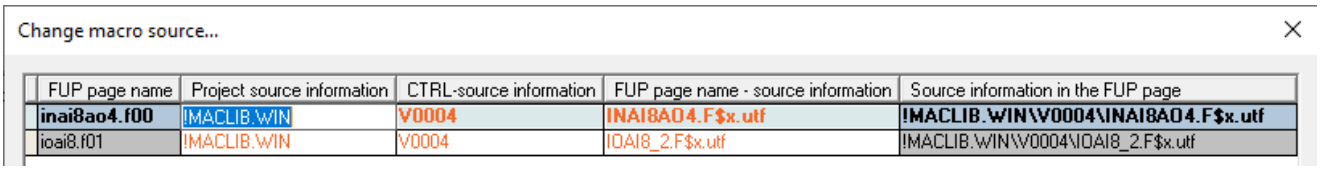
5. Now you can see the IO modules in FUP.



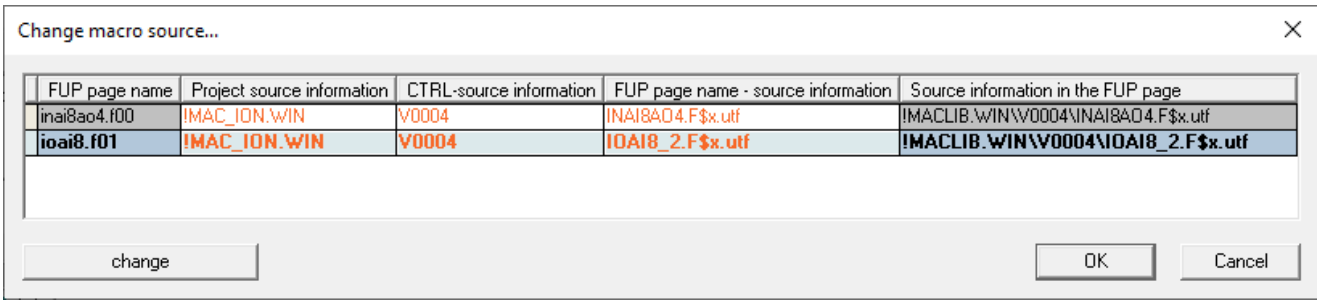
6. Select the analog modules that need to change to NTC. Right click, select “Macro”, “Tools”, “Change source information”.



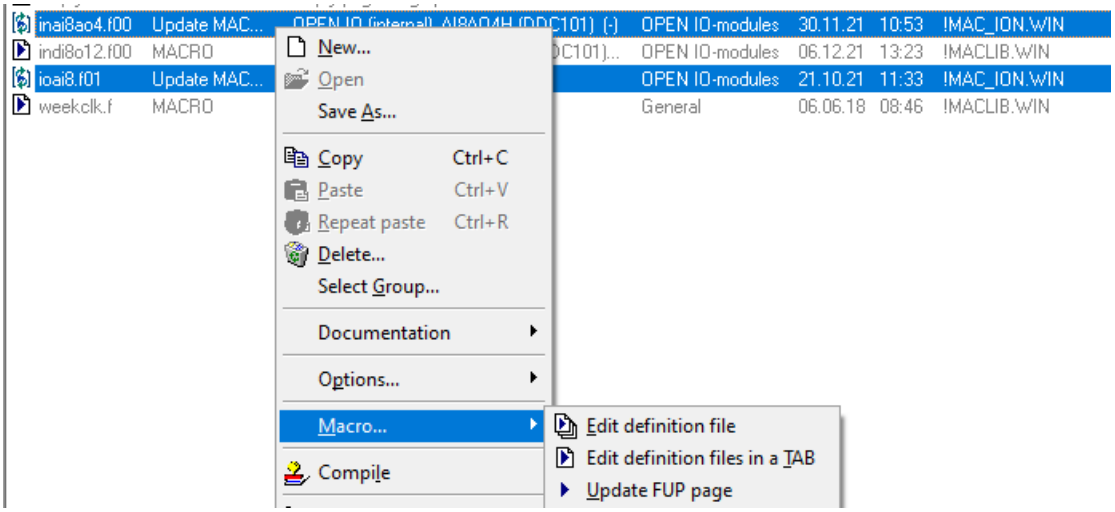
7. Now we need to change them to use the NTC macro.



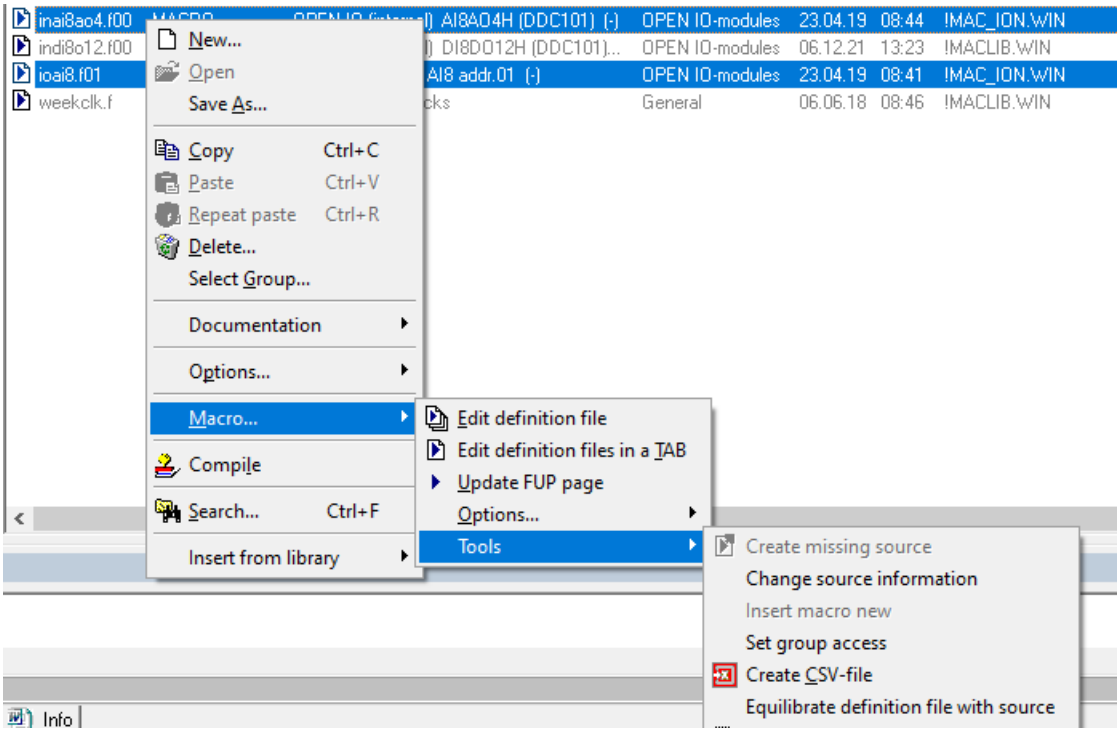
8. Change the “Project source information” to “!MAC_ION.WIN”. Press “Enter” after changing, and then click “Change” button. Click “OK” when it’s done.



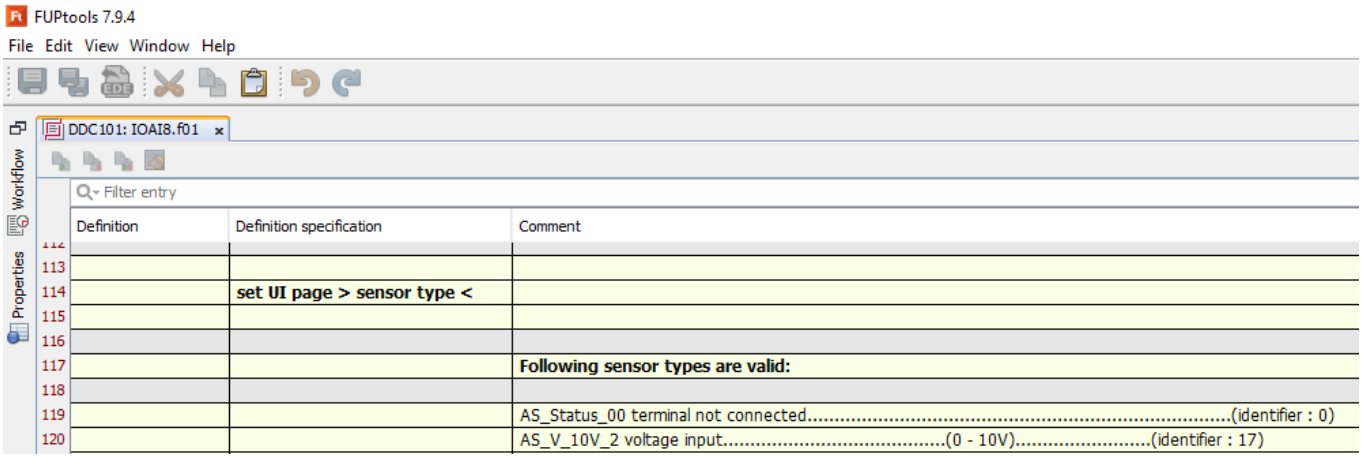
9. Now the macros are changed to use the NTC macros. Update the FUP pages.



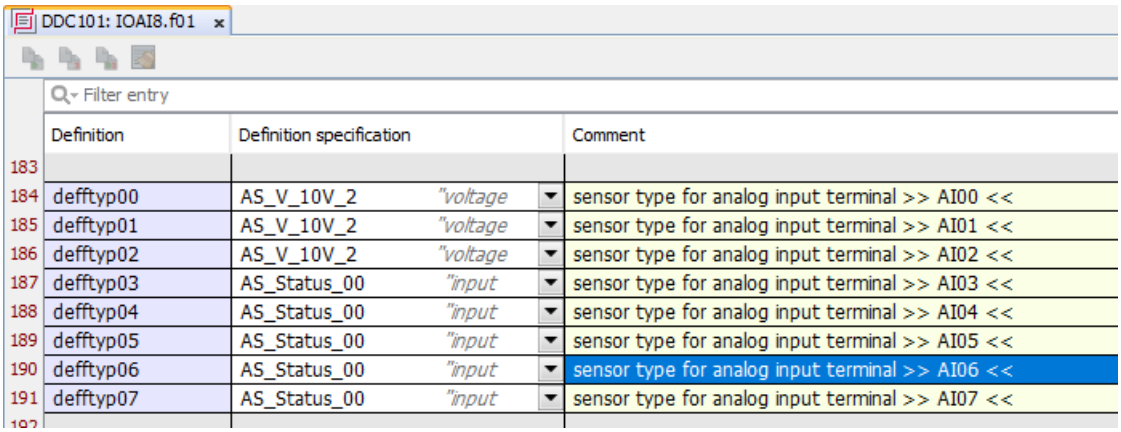
10. Equilibrate definition file with source.



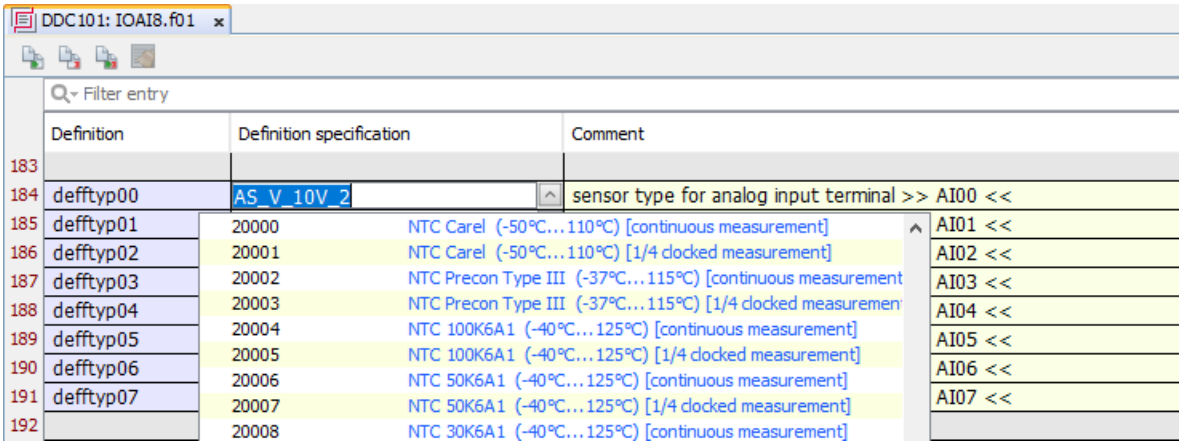
11. To change the sensor type for the AI8/N module, double click “ioai8.f01” to open it, scroll down the list until you find “set UI page > sensor type <”.



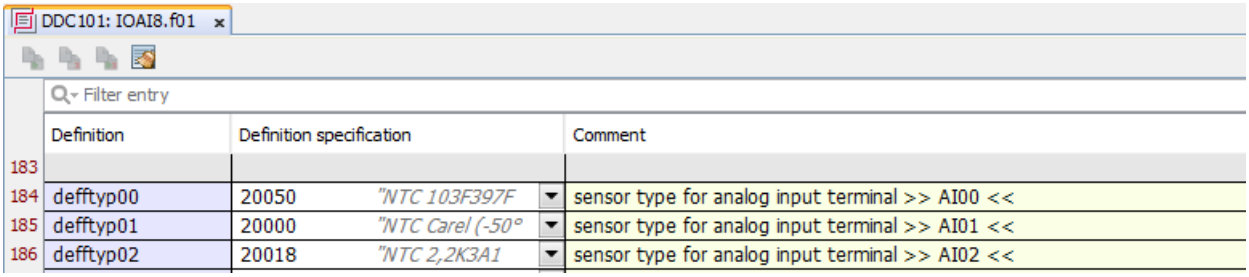
12. Scroll down again until you see the sensor type settings for the AI points.



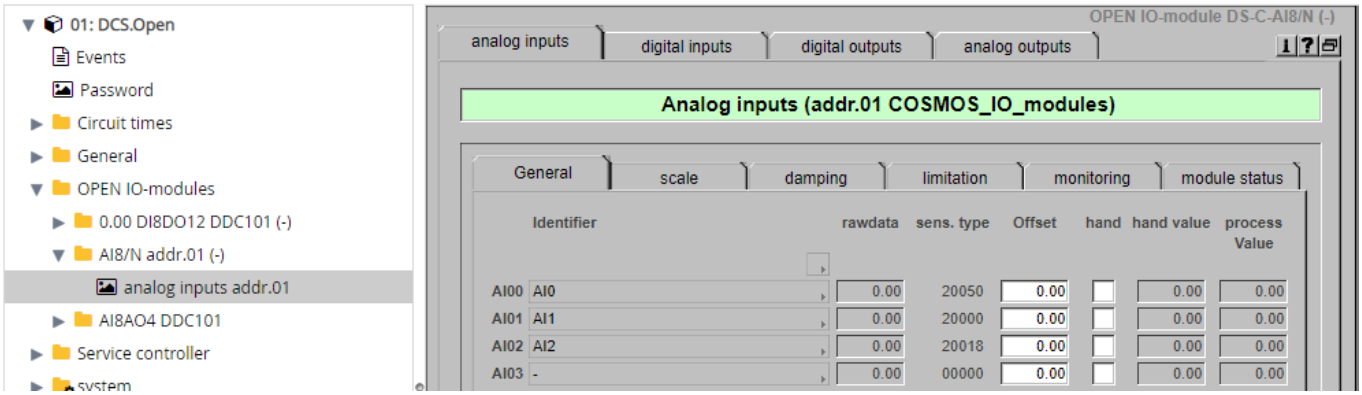
13. Now you can select the NTC sensor type in the list base on your requirement.



14. Once finished the selections, save and close the file. Then compile and upload to the controller. If this is a new controller program, remember to do a “preset” after the upload to the controller.



15. Now you can see the correct NTC sensor type in the controller using OPENview.



16. You can change the OPEN 600 internal AI points by doing the same for the “inai8ao4.f00” macro.
17. Please note that only the AI module with “/N” (e.g. AI8/N) and the OPEN controller with “/N” (e.g. OPEN 600 EMS/N) support NTC sensors.