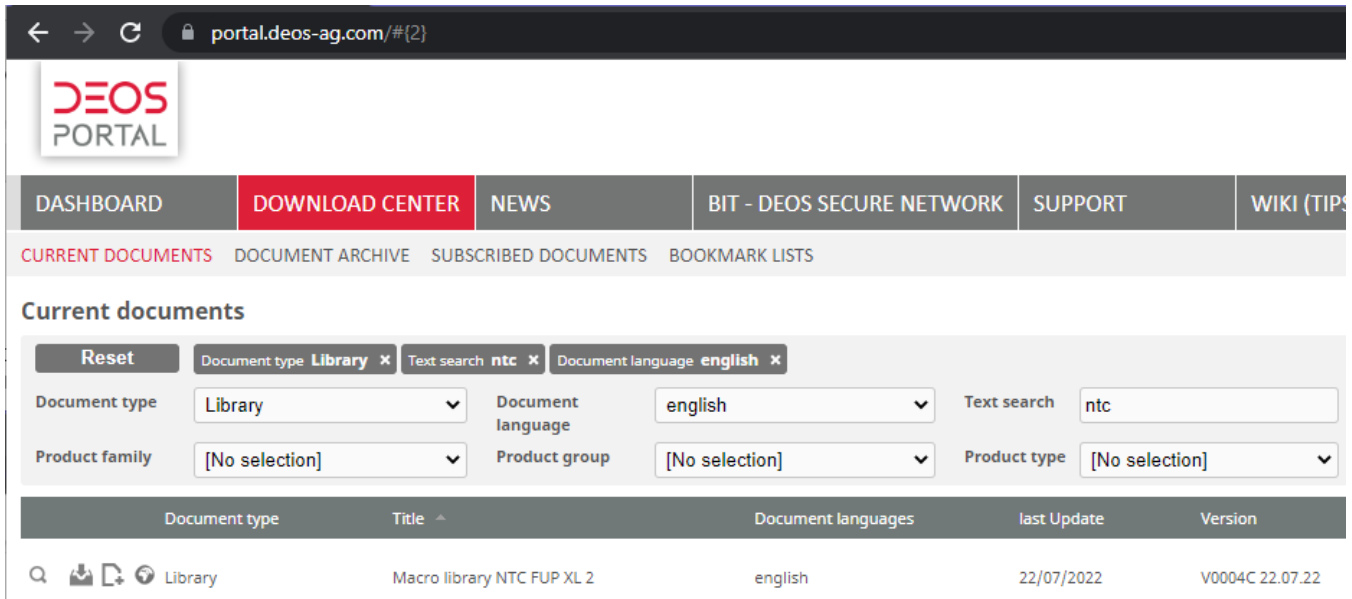


## TT220902 – FUP - NTC Sensor

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”.



portal.deos-ag.com/#[2]

**DEOS PORTAL**

DASHBOARD **DOWNLOAD CENTER** NEWS BIT - DEOS SECURE NETWORK SUPPORT WIKI (TIPS)

CURRENT DOCUMENTS DOCUMENT ARCHIVE SUBSCRIBED DOCUMENTS BOOKMARK LISTS

**Current documents**

Reset Document type **Library** Text search **ntc** Document language **english**


Document type: Library Document language: english Text search: ntc

Product family: [No selection] Product group: [No selection] Product type: [No selection]

Document type	Title	Document languages	last Update	Version
Library	Macro library NTC FUP XL 2	english	22/07/2022	V0004C 22.07.22

2. Import “!MAC\_ION.WIN” library in FUP.

Enter project name


Do you want to rename automatically the project name "IMAC\_ION.WIN-2022-07-22" to "IMAC\_ION.WIN"?

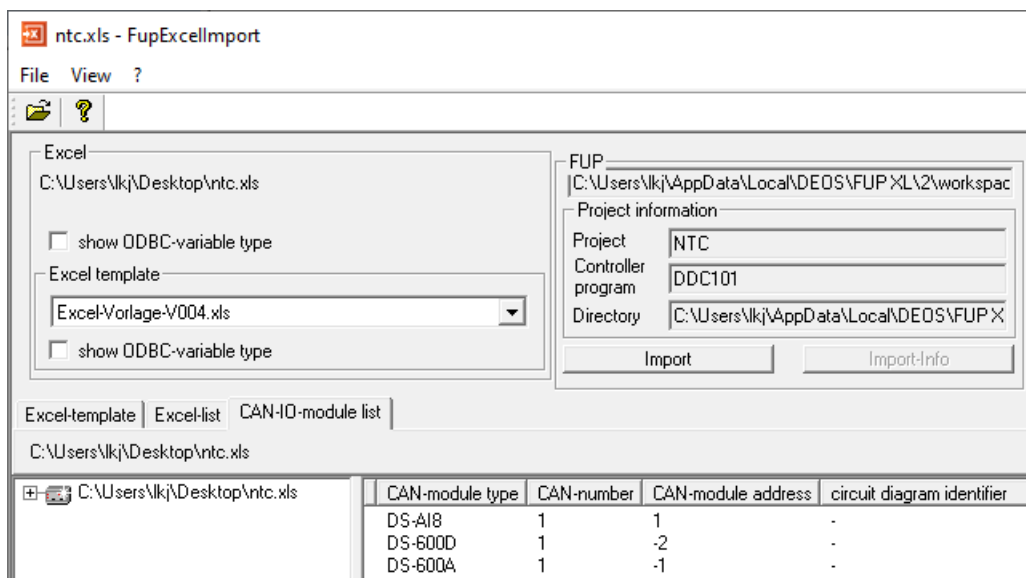
IMAC\_ION.WIN

OK Cancel

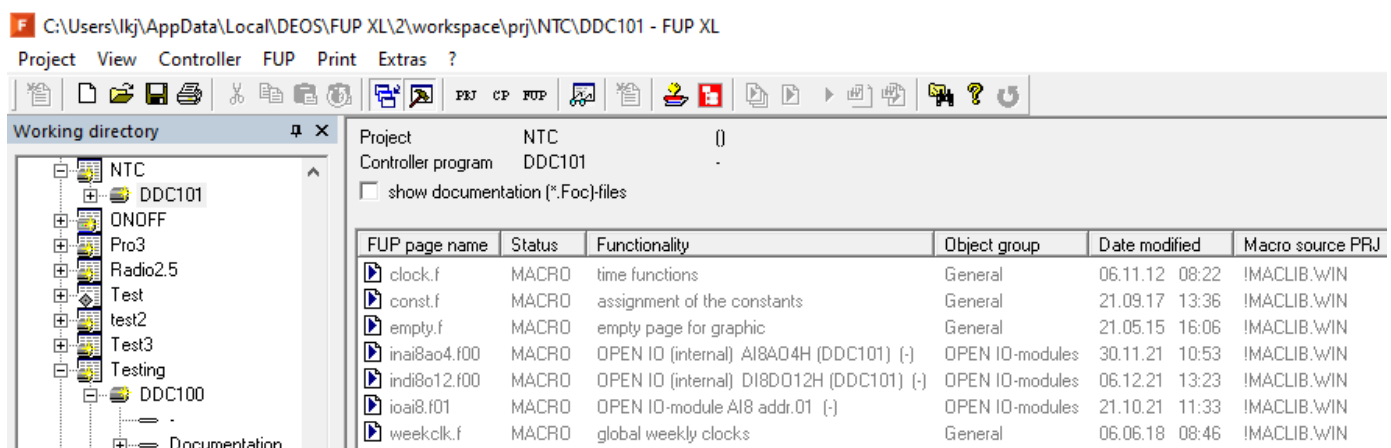
3. Create the Excel import template as usual. Select “0-10V” for AI points first, will change it later.

	A	B	C	D	E	F	G	H	I	J
	Programmer		Michael		last modified		1/8/2014		FupExcelimport-File (for the formular Excel-formular V004)	
	CAN- No. (1 or	panel identifier	module type	modul e- addre	terminal	terminal description - identifier e.g. AHU2Fan Fault Status	terminal description	sensortype (34),(17),(162),(177),	copy maclib macro	extension number
3	1 -		DS-600A	99	AI0	AHU Return Air Temperature	(17 0-10V)			
4	1 -		DS-600A	99	AI1	AHU Return Air CO2	(17 0-10V)			
5	1 -		DS-600A	99	AI2	AHU Return Air Humidity	(17 0-10V)			
6	1 -		DS-600A	99	AI3	-				
7	1 -		DS-600A	99	AI4	-				
8	1 -		DS-600A	99	AI5	-				
9	1 -		DS-600A	99	AI6	-				
10	1 -		DS-600A	99	AI7	-				
11	1 -		DS-600A	99	AO0	AHU Cooling Valve			copy Template macro	
12	1 -		DS-600A	99	AO1	AHU Fan Speed				
13	1 -		DS-600A	99	AO2	-				
14	1 -		DS-600A	99	AO3	-				
15									copy maclib macro	
16	1 -		DS-6000	99	DI0	AHU Supply Fan Status				
17	1 -		DS-6000	99	DI1	AHU Supply Fan Trip				
18	1 -		DS-6000	99	DI2	AHU Auto/Manual				
19	1 -		DS-6000	99	DI3	AHU Filter				
20	1 -		DS-6000	99	DI4	-				
21	1 -		DS-6000	99	DI5	-				
22	1 -		DS-6000	99	DI6	-				
23	1 -		DS-6000	99	DI7	-				
24									copy maclib macro	
25	1 -		DS-6000	99	DO0	AHU Supply Fan Control				
26	1 -		DS-6000	99	DO1	-				
27	1 -		DS-6000	99	DO2	-				
28	1 -		DS-6000	99	DO3	-				
29	1 -		DS-6000	99	DO4	-				
30	1 -		DS-6000	99	DO5	-				
31	1 -		DS-6000	99	DO6	-				
32	1 -		DS-6000	99	DO7	-				
33	1 -		DS-6000	99	DO8	-				
34	1 -		DS-6000	99	DO9	-				
35	1 -		DS-6000	99	DO10	-				
36	1 -		DS-6000	99	DO11	-				
37										
38	CAN- No. (1 or	panel identifier	module type	modul e- addre	terminal	terminal description - identifier e.g. AHU2Fan Fault Status	terminal description	sensortype (34),(17),(162),(177),	copy maclib macro	extension number
39	1 -		DS-AI8	1	AI0	AI0	(17 0-10V)			
40	1 -		DS-AI8	1	AI1	AI1	(17 0-10V)			
41	1 -		DS-AI8	1	AI2	AI2	(17 0-10V)			

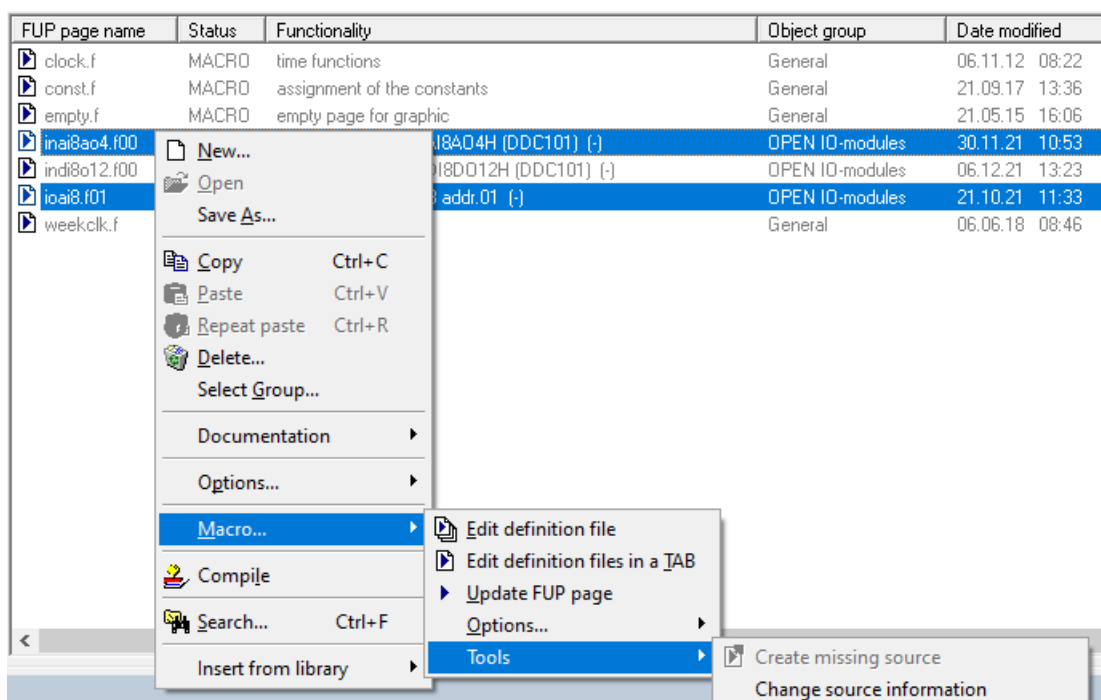
#### 4. Import the Excel template in FUP.



#### 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.

Change macro source...

FUP page name	Project source information	CTRL-source information	FUP page name - source information	Source information in the FUP page
ina18ao4.f00	IMACLIB.WIN	V0004	INA18AO4.F\$.utf	IMACLIB.WIN\V0004\INA18AO4.F\$.utf
ioai8.f01	IMACLIB.WIN	V0004	IOAI8_2.F\$.utf	IMACLIB.WIN\V0004\IOAI8_2.F\$.utf

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.

Change macro source...

FUP page name	Project source information	CTRL-source information	FUP page name - source information	Source information in the FUP page
ina18ao4.f00	!MAC_ION.WIN	V0004	INA18AO4.F\$.utf	IMACLIB.WIN\V0004\INA18AO4.F\$.utf
ioai8.f01	!MAC_ION.WIN	V0004	IOAI8_2.F\$.utf	IMACLIB.WIN\V0004\IOAI8_2.F\$.utf

change OK Cancel

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

ina18ao4.f00	Update MAC...	OPEN IO (internal) AI8AO4H (DDC101) (-)	OPEN IO-modules	30.11.21	10:53	IMAC_ION.WIN
ind18o12.f00	MACRO	DI8DO12H (DDC101)...	OPEN IO-modules	06.12.21	13:23	IMACLIB.WIN
ioai8.f01	Update MAC...	AI8 addr.01 (-)	OPEN IO-modules	21.10.21	11:33	IMAC_ION.WIN
weekclk.f	MACRO	clocks	General	06.06.18	08:46	IMACLIB.WIN

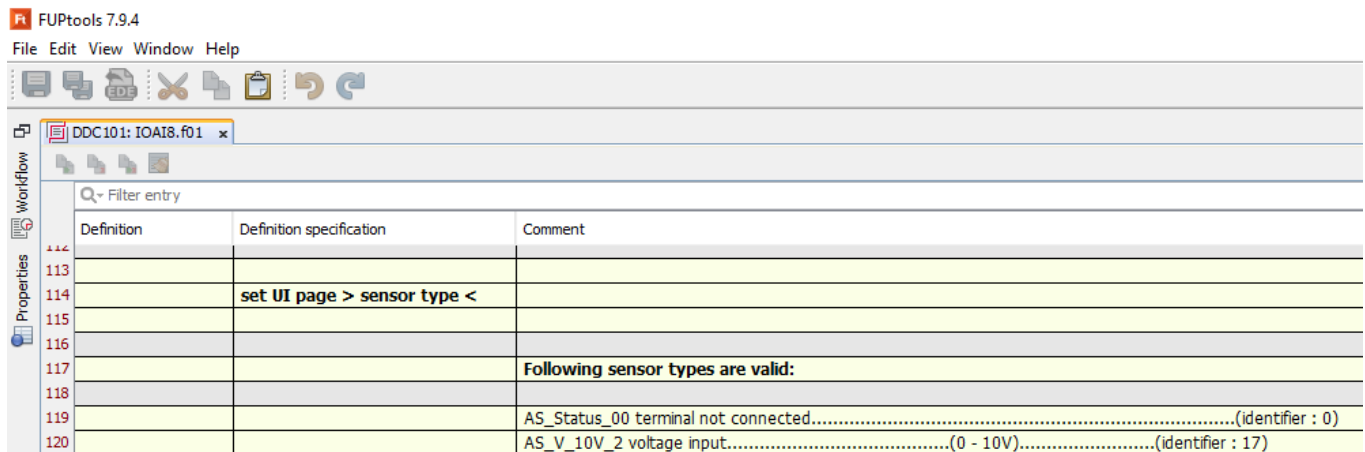
Macro... Edit definition file Edit definition files in a TAB Update FUP page

10. Equilibrate definition file with source.

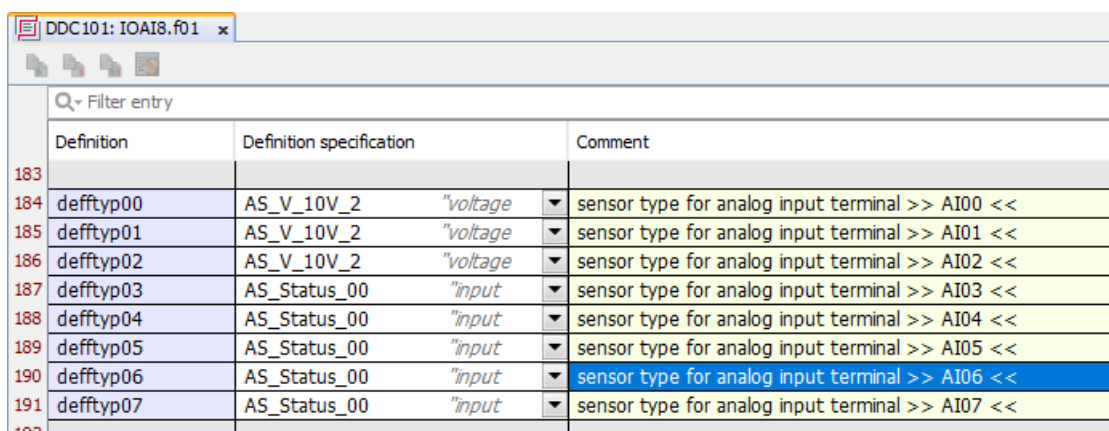
ina18ao4.f00	MACRO	OPEN IO (internal) AI8AO4H (DDC101) (-)	OPEN IO-modules	23.04.19	08:44	IMAC_ION.WIN
ind18o12.f00	MACRO	DI8DO12H (DDC101)...	OPEN IO-modules	06.12.21	13:23	IMACLIB.WIN
ioai8.f01	MACRO	AI8 addr.01 (-)	OPEN IO-modules	23.04.19	08:41	IMAC_ION.WIN
weekclk.f	MACRO	clocks	General	06.06.18	08:46	IMACLIB.WIN

Tools Create missing source Change source information Insert macro new Set group access Create CSV-file Equilibrate definition file with source

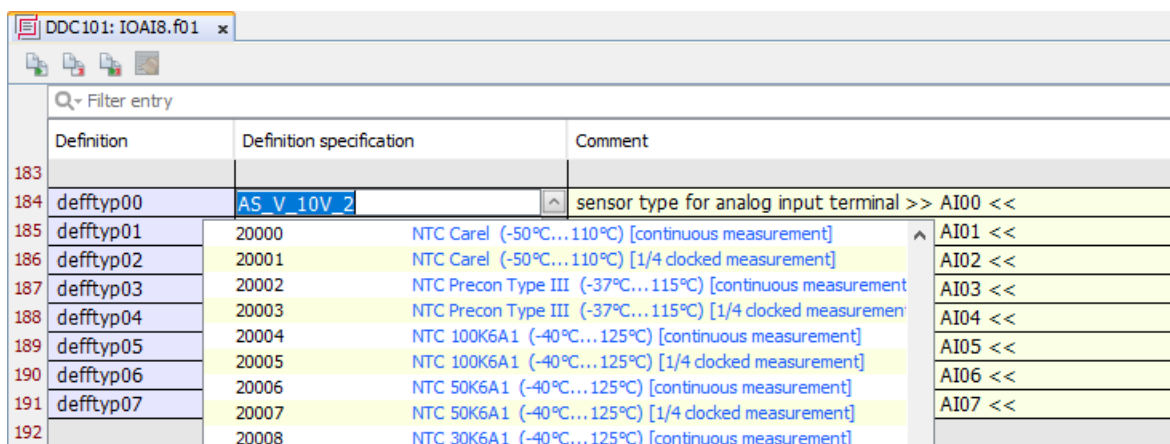
11. To change the sensor type for the AI8/N module, double click “ioai8.f01” to open it, scroll down the list until you find “set UI page > sensor type <”.



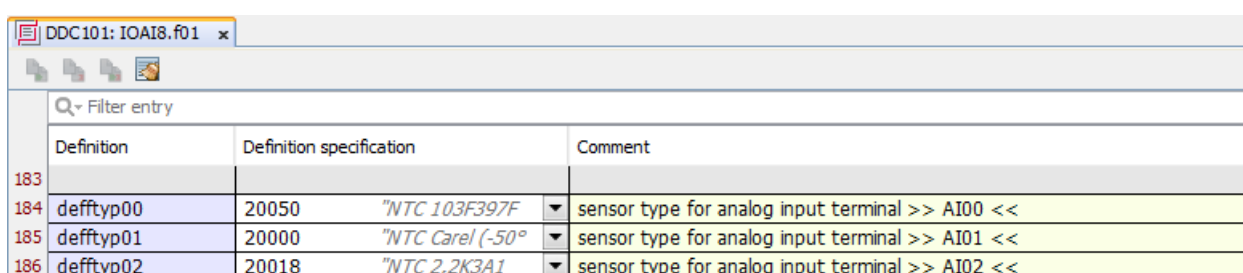
12. Scroll down again until you see the sensor type settings for the AI points.



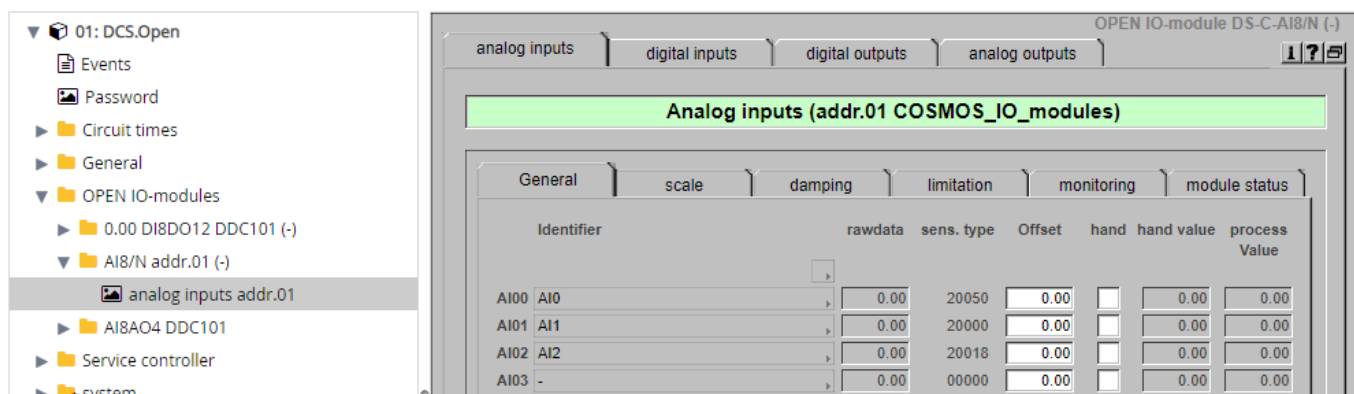
13. Now you can select the NTC sensor type in the list base on your requirement.



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.