

National Instrument NI cDAQ-9178 Manual

Start DAQExpress:



Step 1: Turn on the system by connecting to an outlet using output number 4 above.

Step 2: Connect the USB cord to number 1 above.

Step 3: Connect the USB to the computer, the following notification should appear:

Click "Go" for "Begin an application with this device".



Step 4: After DAQExpress loads up, select "Analog Input"

Step 5: On the bottom left of the screen, click "create new Input"

New Input					×	
Signal Type Voltage						
Supported Channels						
cDAQ1Mod1	(NI 9215 (BNC)) (1)		Filter			
cDAQ1Mod2	(NI 9215 (BNC))	Select All	Filter		- 1	
cDAQ1Mod3	(NI 9235)	ai0	Input 0			
cDAQ1Mod4	(NI 9235)	cDAQ1Mod1	cDAQ1Mod1 Voltage			
cDAQ1Mod5	(NI 9235)	ai1 cDAQ1Mod1				
cDAQ1Mod6	(NI 9236)					
cDAQ1Mod7	(NI 9237)	ai2				
cDAQ1Mod8	(NI 9237)	cDAQ1Mod1			- 1	
SimDev1	(NI Simulated DAQ Device)	ai3 cD4O1Mod1			- 1	
		Congimout				
					- 1	
		1				
				OK Ca	ncel	

The following options should appear:

Step 6: Select the channels corresponding to the channel you have used to input the strain gauges to on the cDAQ-9178

(you might need to change the "Signal Type" from voltage to anything else, depending on what is being tested)

Step 7: Click "ok", your new data will be displayed

Input Settings:

Once you click on the different inputs at the bottom of the screen, a list of options will appear on the right. Under "Channel" you will get the option to change the units, min and max for the data provided.

Export Data:

Untitled Project* - DAQExpress						
File Edit Run [Data View Help					
** Project Files	Record	₩ Analog Input_2.task * - running * + -				
] = + , ×	Record (Timed)	8 💿 Record 🔻				
🔎 Filter	Capture data Ctrl+D					
🔝 SystemDesigner						
₩₩ Analog Input_2.task * 00:		:00:36.38				
👻 🚞 Automation Examples						
Analog Input.gvi						
Analog Output.gvi		10				
Counter Input - Events.gvi						

Step 1: Click on "Data" at the top left

Step 2: You can "Record", "Record (Timed)", or "Capture Data"

Step 3: Once you have captured the data, right click on the data you wish to export, the following options should appear:

File Edit Run	n Data View Help					
* Project Files	Captured Data	Analog Input_2.task * * +				
≝ ₫ × ⊠	[≣ ₩	🕨 😢 🗓 Capture frame ▼				
Capture 1 02/15/2021 11:29:02						
	Open Rename © Copy Export Delete Expand all Collapse all	00:04:15.89 C1: 00:04:15.89				

Step 4: Click on export and save the data as an Excel Spread Sheet

More Information:

For more information on how to use DAQExpress, please refer to: https://www.youtube.com/playlist?list=PLbCk9hRe-ziEvxzUK36gdXwpRdWhvnfrN