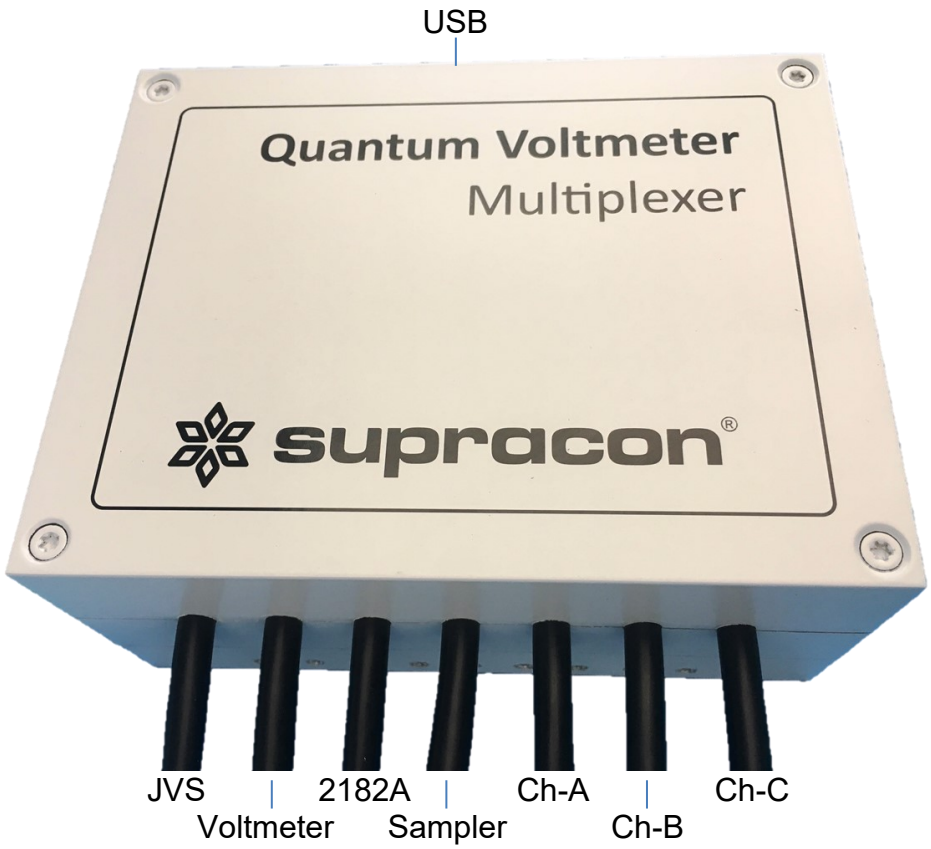
➔ Connections Multiplexer



➔ Connection JVS

FFP.2S.302.CLAC52ZG Stecker 2polig

ERD.2S.302.CLL Buchse 2polig

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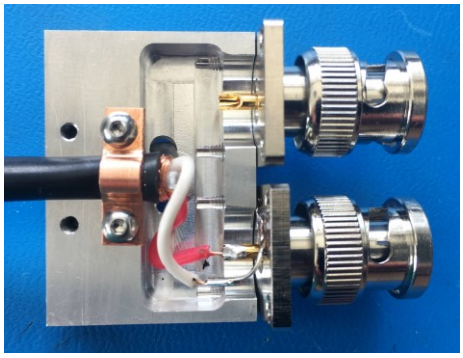
➔ Connection 2182A

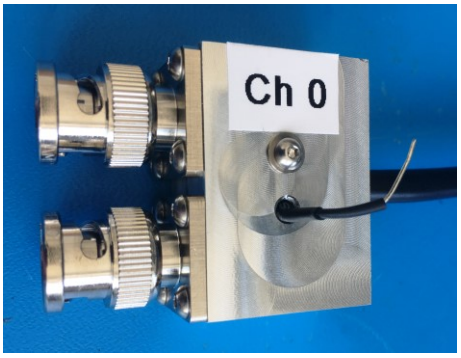
FVN.1S.304.CLYC52ZG Stecker 4polig

➔ Connection Sampler

Single Ended



Connect Ch 0 to CH 0 of NI PXI-5922



Optionally, the wires can be rearranged to a Ch0 – Ch1 differential-ended NI PXI 5922 connection.

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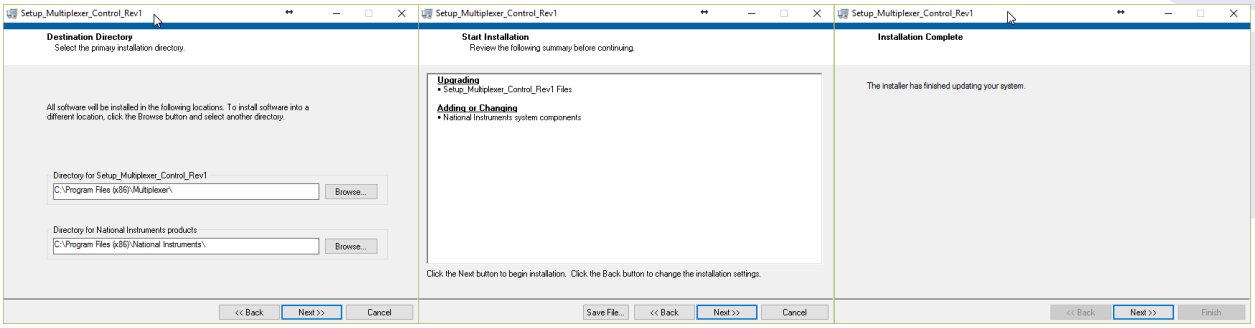
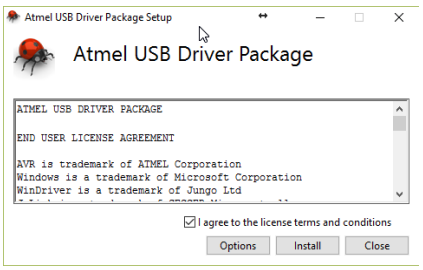
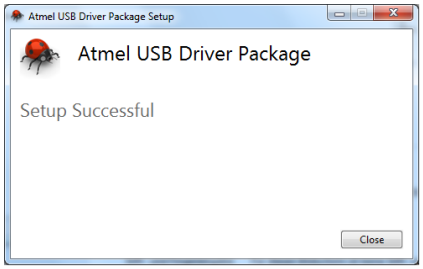
➔ Software Installation

- **Run Multiplexer_Control_Rev1**

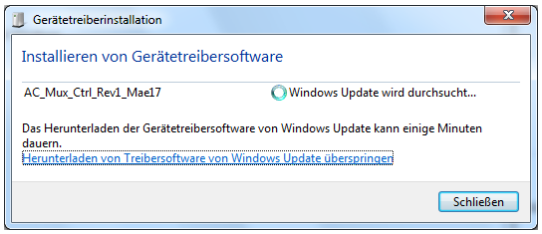
1) Run \Multiplexer_Rev1\Setup\setup.exe
2) Follow the Steps below

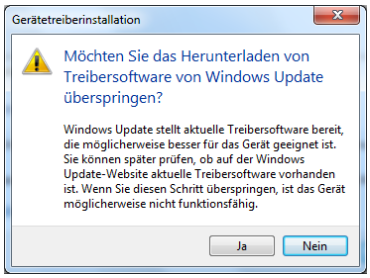






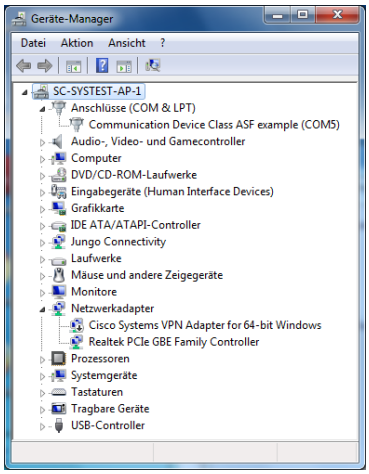
3) Connect the Multiplexer to the Computer





Please skip the Windows Update if possible.

4) Check the Device Manager **“Communication Device Class ASF example”**



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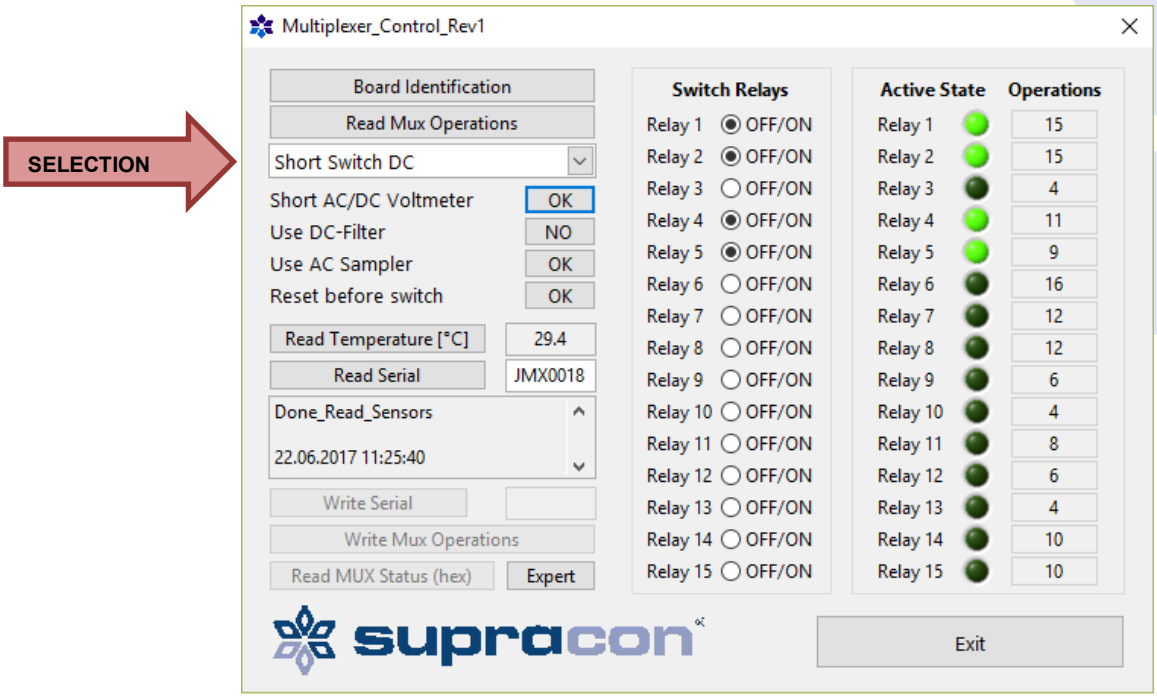
➔ Run Multiplexer Control Rev1



Selection	Comment
Default	Individual switching of the Relays.
Short DC Nano / Voltmeter	Internal Short of connected Nanovoltmeter and external Voltmeter.
Short AC Sampler	Internal Short of connected Sampler.
Short Switch DC	Direct connection of PJVS to Nanovoltmeter (Keithley 2182A) “Use DC-Filter”→True “Use AC Sampler”→False
Short Switch AC	Direct connection of PJVS to Sampler (NI PXI 5922) “Use DC-Filter”→False “Use AC Sampler”→True
JVS - Voltmeter	External Voltmeter to PJVS connection; Activate “Use DC-Filter” as a function of your measuring task.
Channel A/B/C ±	Connection of Voltmeter, PJVS and Channel A/B/C ± “Use DC-Filter”→True “Use AC Sampler”→False for DC Measurements “Use DC-Filter”→False “Use AC Sampler”→True for AC Measurements
Nulldetector – Channel A/B/C ±	Nulldetector connected to Channel A/B/C ± “Use AC Sampler”→False Nulldetector → Nanovoltmeter “Use AC Sampler”→True Nulldetector → Sampler
Voltmeter – Channel A/B/C ±	External Voltmeter connected to Channel A/B/C ±

- ➔ Using “Reset before switch”-Option means a reset of all relays before going to given setup.
- ➔ Using “Short AC/DC Voltmeter”-Button means internal short of connected voltmeter by using your given setup of all other relays.

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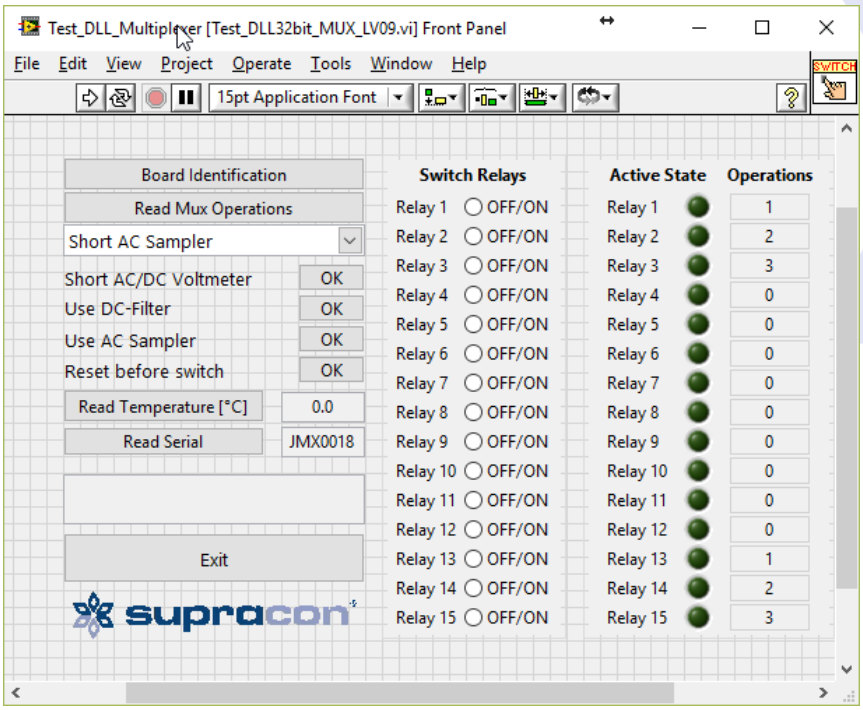
➔ Use Multiplexer_Control_Rev1.dll



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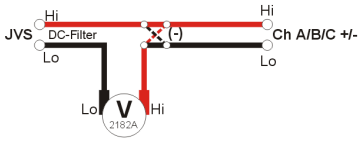
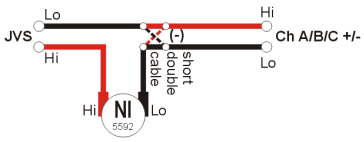
➔ Measuring modes according previous table

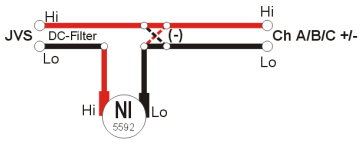
Channel A/B/C +/-
use AC Sampler: FALSE and DC Filter: TRUE



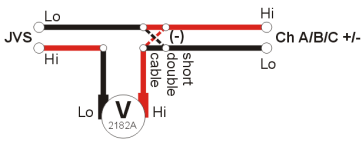
Channel A/B/C +/-
use AC Sampler: TRUE and DC Filter: FALSE



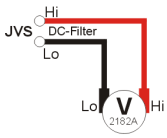
Channel A/B/C +/-
use AC Sampler: TRUE and DC Filter: TRUE



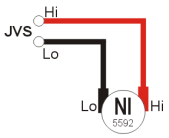
Channel A/B/C +/-
use AC Sampler: FALSE and DC Filter: FALSE



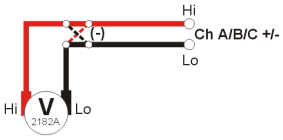
Short Switch DC



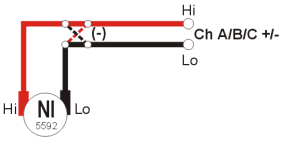
Short Switch AC



Nulldetektor - Channel A/B/C +/-
use AC Sampler: FALSE



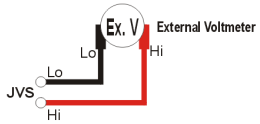
Nulldetektor - Channel A/B/C +/-
use AC Sampler: TRUE



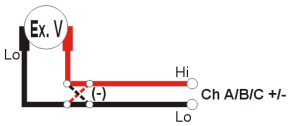
Short DC Nano / Voltmeter

Short DC Nano / Voltmeter

JVS - Voltmeter



Voltmeter - Channel A/B/C +/-



Short AC Sampler

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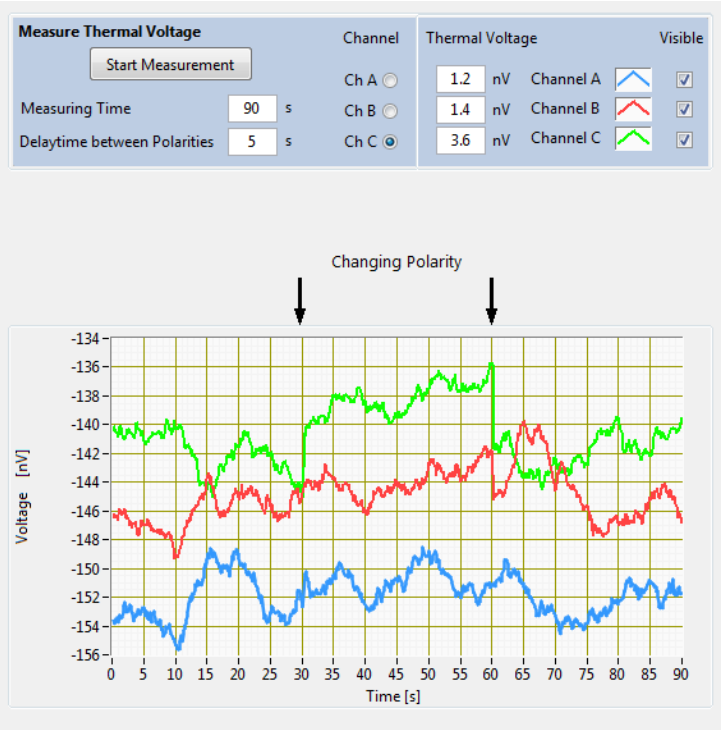
➔ Specifications:



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