

THE MEASURABLE DIFFERENCE.



DEWETRON

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# OXYGEN TRAINING > SETUP GENERATION





- > Software Overview
- > Channel List & Channel Setup
- > Sample Rate Selection (board-wise & channel-wise)
- > Multi-channel configuration
- > Measurement screen configuration
- > Instruments overview
- > Load & Save setups
- > Configuration of multiple screens and undocking of screens
- > Display time, date and measurement time on the screen
- > Header Data
- > Setup Security
- > Audio Replay
- > TEDS support

# SOFTWARE OVERVIEW



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- ① Measurement screen  
Displays for data visualization can be placed here
- ② Action Bar  
Contains all relevant control buttons
- ③ Menu bar  
Menus for General Software Settings, hardware channel access, recording mode, data export and others
- ④ Menu bar cont'd
- ⑤ Overview bar  
One data channel can be displayed here for general overview



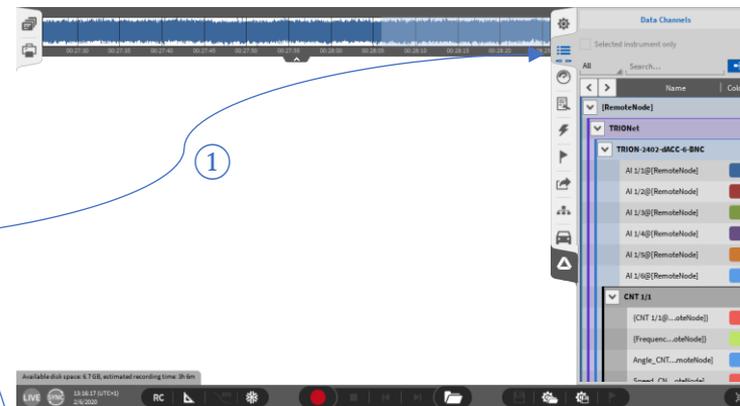
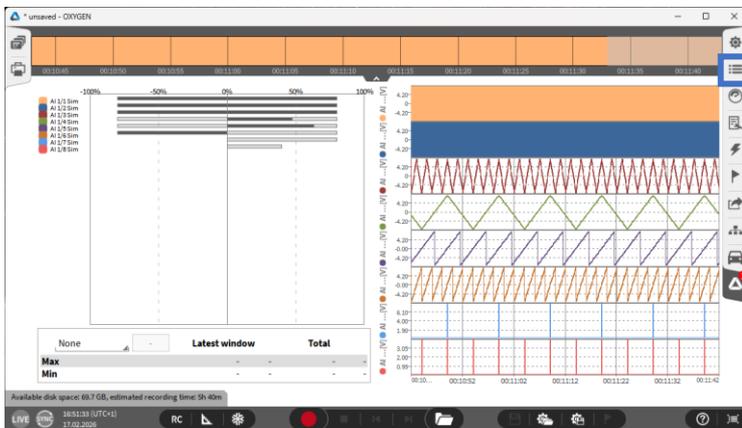
# SOFTWARE OVERVIEW



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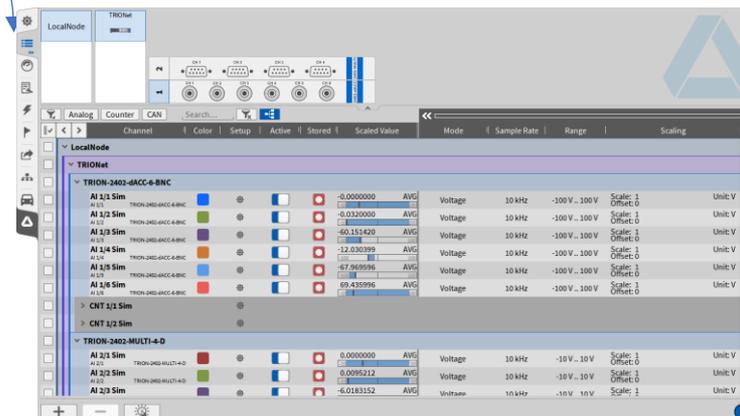
Software operation is inspired by touch operation of smart phones and tablets

- Touch and swipe gestures are applicable



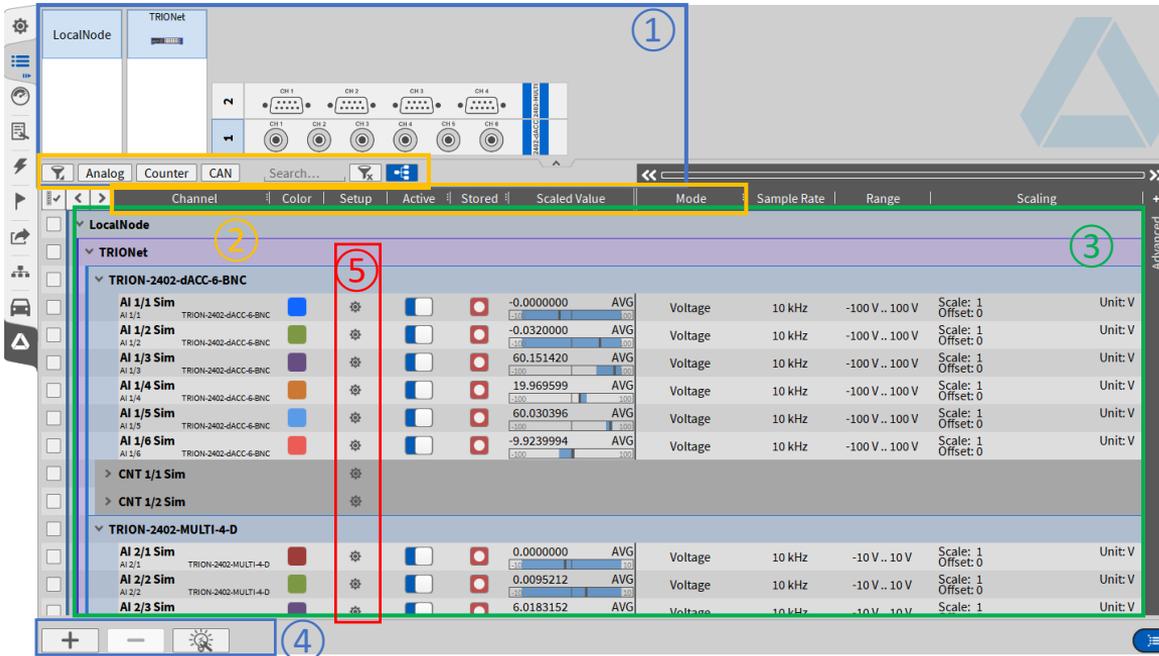
① A touch (or single click) to a menu opens a small view of the respective menu

② A swipe to the other side of the software (or double click) opens the full screen menu



# CHANNEL LIST - GENERAL

- ① Schematic of the measurement hardware
- ② Different Search and table filtering options
- ③ Hardware channels sorted in list view
- ④ Math section to add and delete channels like formulas, statistics, misc
- ⑤ Setup button to enter the channel setup of one specific channel



The screenshot displays the DEWETRON software interface. At the top, a schematic of the measurement hardware is shown with channels CH1 through CH6. Below this, a navigation bar includes 'Analog', 'Counter', and 'CAN' tabs. The main area is a table of channels, with a search bar and filter options above it. The table lists channels under 'LocalNode' and 'TRIONet', including 'TRION-2402-dACC-6-BNC' and 'TRION-2402-MULTI-4-D'. Each row shows channel details like name, type, status, and measurement data. Annotations include a blue box around the hardware schematic (1), a yellow box around the search and filter options (2), a green box around the channel list (3), a red box around the setup gear icon (5), and a blue box around the bottom navigation bar (4).

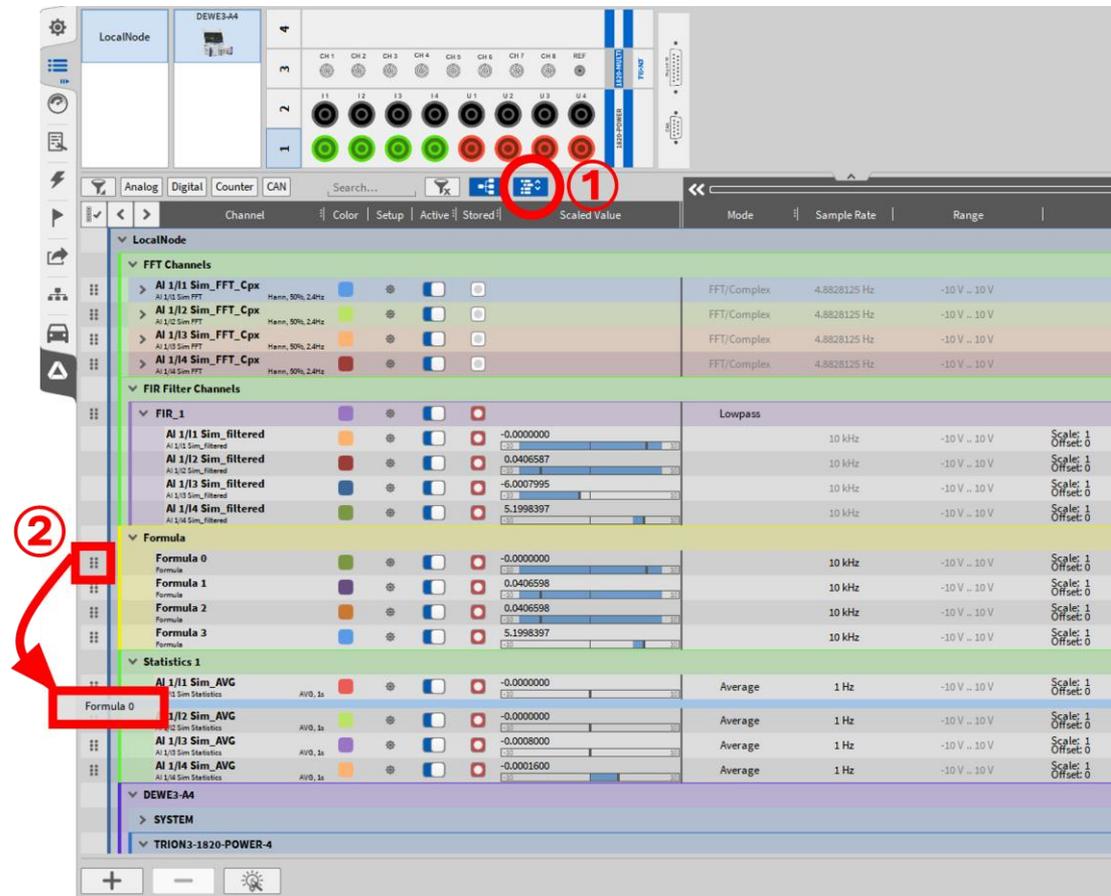
Channel	Color	Setup	Active	Stored	Scaled Value	Mode	Sample Rate	Range	Scaling
<b>LocalNode</b>									
<b>TRIONet</b>									
<b>TRION-2402-dACC-6-BNC</b>									
AI 1/1 Sim	AI 1/1	TRION-2402-dACC-6-BNC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-0.0000000	AVG	10 kHz	-100 V ... 100 V	Scale: 1 Offset: 0
AI 1/2 Sim	AI 1/2	TRION-2402-dACC-6-BNC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-0.0320000	AVG	10 kHz	-100 V ... 100 V	Scale: 1 Offset: 0
AI 1/3 Sim	AI 1/3	TRION-2402-dACC-6-BNC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	60.151420	AVG	10 kHz	-100 V ... 100 V	Scale: 1 Offset: 0
AI 1/4 Sim	AI 1/4	TRION-2402-dACC-6-BNC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19.969599	AVG	10 kHz	-100 V ... 100 V	Scale: 1 Offset: 0
AI 1/5 Sim	AI 1/5	TRION-2402-dACC-6-BNC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	60.030396	AVG	10 kHz	-100 V ... 100 V	Scale: 1 Offset: 0
AI 1/6 Sim	AI 1/6	TRION-2402-dACC-6-BNC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-9.9239994	AVG	10 kHz	-100 V ... 100 V	Scale: 1 Offset: 0
<b>CNT 1/1 Sim</b>									
<b>CNT 1/2 Sim</b>									
<b>TRION-2402-MULTI-4-D</b>									
AI 2/1 Sim	AI 2/1	TRION-2402-MULTI-4-D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0000000	AVG	10 kHz	-10 V ... 10 V	Scale: 1 Offset: 0
AI 2/2 Sim	AI 2/2	TRION-2402-MULTI-4-D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0095212	AVG	10 kHz	-10 V ... 10 V	Scale: 1 Offset: 0
AI 2/3 Sim	AI 2/3	TRION-2402-MULTI-4-D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.0183152	AVG	10 kHz	-10 V ... 10 V	Scale: 1 Offset: 0

# CHANNEL LIST – Change Order of math channels



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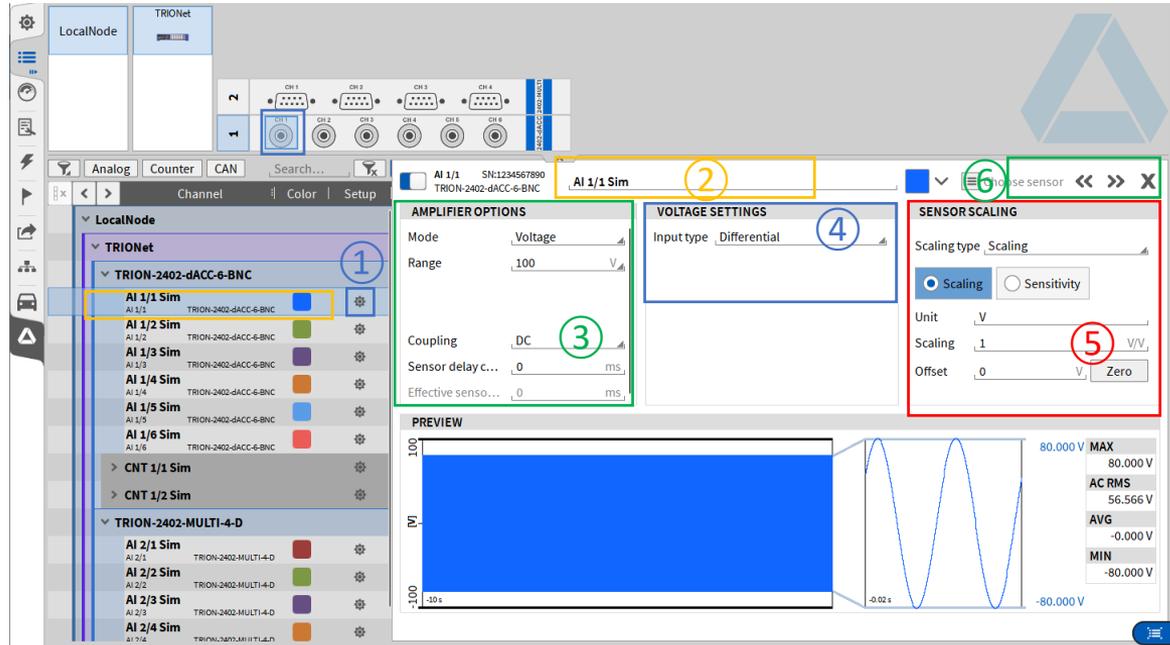
- 1 By pressing the “Channel sorting” button, the channel selection boxes disappear and math channels such as formulas and statistics channels can be reorganized, also via groupings
- 2 Drag and Drop the channel to the desired location. Please mind, that an empty grouping will be removed.





# CHANNEL LIST – HARDWARE CHANNEL CONFIGURATION

- 1 Select the channel to be configured either in the hardware schematic and double click on it or press the channels' gear button in the channel list
- 2 Change the channel name if desired
- 3 Channel dependent hardware settings (i.e. measurement mode, Input Range, Coupling/ HP-Filter or LP-Filter settings)
- 4 Depending on the input Mode settings, different settings will be available, i.e. for
  - Voltage: Single-ended or differential sensor connection
  - Current: Shunt selection
  - IEPE: Excitation current
- 5 Sensor specific scaling factor and engineering unit input as
  - Scaling factor or Sensitivity
  - 2-point scaling
  - Table scaling
  - Polynomial scaling
- 6 Close Channel setup or swap to the next one





# CHANNEL LIST – Channel pin out & connections

① Based on the selected Channel mode, the connector pinning is shown next to the preview tab. The connection schematic is located under the pin out.

AI 1/1 SN:1234567890 AI 1/1 TEDS Choose sensor << >> X

TRION3-1820-MULTI-4-D

**AMPLIFIER OPTIONS**

Mode Voltage

Range 10

LP filter Auto

10 Bessel

Compensate delay

Coupling DC

Input i... High

Sensor... 0

**VOLTAGE SETTINGS**

Excitation  Voltage 0 V

Input type Input

**SENSOR SCALING**

Scaling type Scaling

Scaling  Sensitivity

Unit V

Scaling 1 V/V

Offset 0 V Zero

Preview **Pin Out & Connections** ①

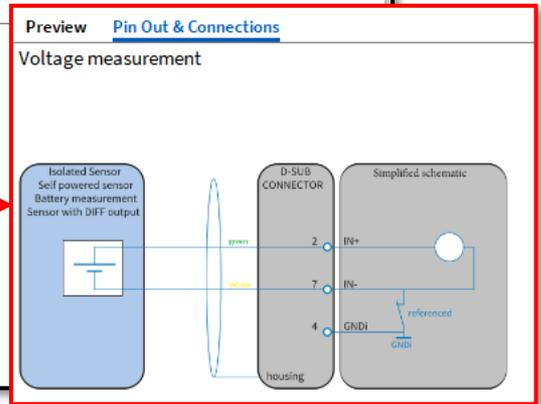
TRION3-18xx-MULTI-4-D

9-pin D-SUBconnector

- 1: EXC+ (CAN power supply 12V, CH1 only)
- 2: IN+
- 3: Sense- (CAN low, CH1 only)
- 4: GND<sub>sensor</sub> (CAN GND, CH1 only)
- 5: R+
- 6: Sense+ (CAN high, CH1 only)
- 7: IN-
- 8: EXC-
- 9: TEDS

Housing connected to chassis GND

**Voltage measurement**





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# CHANNEL LIST – BOARD-WISE SAMPLE RATE SELECTION

- > Sample Rate can be set in Channel List (1)
- > Min. Sample Rate: 100 Hz
- > Max. Sample Rate depending on TRION board
- > In case of different board sample rates: lower sample rates must be integer multiple to the highest sample rate
- > i.e.
  - > Board 1: 10 kHz
  - > Board 2: 50 kHz
  - > Board 3: 100 kHz
- > Board 1: 10 kHz
- > Board 2: 20 kHz
- > Board 3: 50 kHz



The screenshot shows the DEWETRON software interface with a channel list. The 'Sample Rate' column is highlighted with a blue box, and a circled '1' is placed above it. The channel list includes various AI and CNT channels for different boards.

Channel	Mode	Sample Rate	Range	Scaling
AI 1/1 Sim	Voltage	20 kHz	-100 V.. 100 V	Scale: 1 Offset: 0
AI 1/2 Sim	Voltage	20 kHz	-100 V.. 100 V	Scale: 1 Offset: 0
AI 1/3 Sim	Voltage	20 kHz	-100 V.. 100 V	Scale: 1 Offset: 0
AI 1/4 Sim	Voltage	20 kHz	-100 V.. 100 V	Scale: 1 Offset: 0
AI 1/5 Sim	Voltage	20 kHz	-100 V.. 100 V	Scale: 1 Offset: 0
AI 1/6 Sim	Voltage	20 kHz	-100 V.. 100 V	Scale: 1 Offset: 0
CNT 1/1 Sim				
CNT 1/2 Sim				
AI 2/1 Sim	Voltage	10 kHz	-10 V.. 10 V	Scale: 1 Offset: 0
AI 2/2 Sim	Voltage	10 kHz	-10 V.. 10 V	Scale: 1 Offset: 0
AI 2/3 Sim	Voltage	10 kHz	-10 V.. 10 V	Scale: 1 Offset: 0

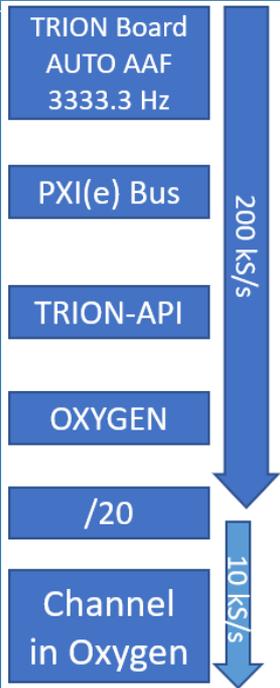


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# CHANNEL LIST – CHANNEL-WISE SAMPLE RATE SELECTION

- ① Since OXYGEN R5.2, it's possible to select individual sample rates per channel
- ② This feature is simply activated with the "Reduction" when setting the sample rate of a channel

The screenshot shows the 'Channel List' window with columns for Channel, Color, Setup, Active, Stored, Scaled Value, Mode, Sample Rate, Range, and Scaling. A 'Sample Rate' dialog box is open, showing 'Enable reduction' checked and 'Target rate' set to 10 kHz. A blue arrow points from the '10 kHz' value in the channel list to the 'Target rate' field in the dialog box.



- > Under the hood
  - > The samples are physically sampled with the set sample rate
  - > If the reduction is enabled, the user can set a reduced sample rate which is converted to an integer divider in background
  - > The unnecessary samples are skipped
- > Aliasing?!
  - > No bothering, when using TRION-Boards with onboard filtering
  - > The AUTO filters are adjusted according to the target sample rate
  - > In this example, the AAF is AUTO-adjusted to 3333.3 Hz
  - > BUT the user can override the filter setting if he wants to



# CHANNEL LIST – CHANNEL-WISE SAMPLE RATE SELECTION

	All synchronous input channels in OXYGEN are now capable of this feature (except DI and CNT)
	Can also be used in formula (if synchronous)
①	If the (Board-)sample rate is set to another value, the internal integer divider gets re-adjusted to match the target sample rate
②	In case, this is not possible, the user gets a hint and can accept the adjustment (effective rate)

Voltage	50000 Hz	-2 V .. 2 V
Voltage	10000 Hz	-2 V .. 2 V
Voltage	2000 Hz	-10 V .. 10 V
Voltage	50000 Hz (100000 Hz)	-10 V .. 10 V

HighSpeed

Sample Rate

Samplerate: 50000 Hz

Enable reduction

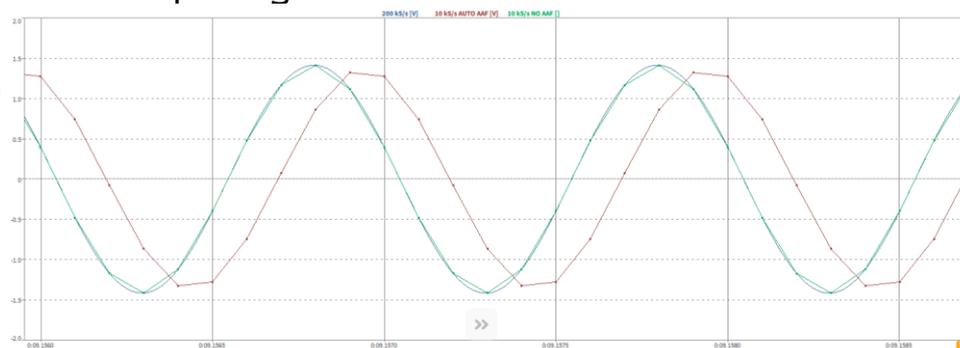
Target rate: 100000 Hz

Effective rate: 50000 Hz

Accept

Cancel Ok

## > Example Signals



- BLUE:
- Sample rate: 200 kS/s
  - AAF AUTO
- RED:
- Reduced SR: 10 kS/s
  - AAF AUTO
- GREEN
- Reduced SR: 10 kS/s
  - AAF 66666.6 Hz

- > One can see, that the RED signal is phase shifted due to the AAF, but also AA-free
- > If the user only wants the skipped samples without additional filtering, just rise up the AAF frequency

# CHANNEL LIST – MULTI-CHANNEL CONFIGURATION



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- ① Select the check boxes of the channels to be configured
- ② All selected channels can be (de-) activated at once (de-activated: data not transferred from TRION-board to PC)
- ③ All selected channels can be selected for storing  
 Storing enabled: Data is written to HDD in case of recording  
 Storing disabled: Data is transmitted from TIRON-board to PC and displayed and can be used for math operations but is not stored to HDD
- ④ All channel settings can be accessed and edited once for all selected channels
- ⑤ Open advanced setup for accessing the entire channel settings

The screenshot shows the DEWETRON software interface with the following elements:

- Channel List Table:**

Channel	Color	Setup	Active	Stored	Scaled Value	Mode	Sample Rate	Range	Scaling
LocalNode									
TRIONet									
TRION-2402-dACC-6-BNC									
AI 1/1 Sim	Blue	⚙️	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-0.0000000	Voltage	20 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
AI 1/2 Sim	Green	⚙️	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.0000000	Voltage	20 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
AI 1/3 Sim	Purple	⚙️	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	20.075999	Voltage	20 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
AI 1/4 Sim	Orange	⚙️	<input type="checkbox"/>	<input type="checkbox"/>	-59.984796	Voltage	20 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
AI 1/5 Sim	Blue	⚙️	<input type="checkbox"/>	<input type="checkbox"/>	20.015199	Voltage	20 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
AI 1/6 Sim	Red	⚙️	<input type="checkbox"/>	<input type="checkbox"/>	-29.961998	Voltage	20 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
CNT 1/1 Sim									
CNT 1/2 Sim									
TRION-2402-MULTI-4-D									
AI 2/1 Sim	Red	⚙️	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.0000000	AVG			
AI 2/2 Sim	Green	⚙️	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-0.0000000	AVG			
AI 2/3 Sim	Purple	⚙️	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2.0055999	AVG			
AI 2/4 Sim	Orange	⚙️	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-5.9981596	AVG			
CAN 2/1 Sim	Blue	⚙️	<input type="checkbox"/>	<input type="checkbox"/>		used as analog			
- Advanced Setup Panel:** Shows settings for Excitation, LP Filter, Coupling, and Input Type. The 'Coupling' dropdown is set to 'DC' and 'Input Type' is 'Differential'.

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# CHANNEL LIST – COPY-PASTE CHANNEL SETTINGS



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- 1 Select the check box of the channel whose settings shall be copied and press CTRL+C
- 2 Select the channel(s) the settings shall be pasted to by checking their boxes and press CTRL+V

The screenshot shows the DEWETRON software interface with two panels. The top panel shows a channel list for 'TRION-2402-dACC-6-BNC'. The first channel, 'AI 1/1 Sim', is highlighted with a yellow box and has a '1 CTRL+C' annotation. The bottom panel shows the same channel list with three channels highlighted in red: 'AI 1/4 Sim', 'AI 1/5 Sim', and 'AI 1/6 Sim'. A red box surrounds these three channels, and a '2 CTRL+V' annotation is placed below them. A red arrow points from the first channel in the top panel to the second channel in the bottom panel.

Channel	Color	Setup	Active	Stored	Scaled Value	Mode	Sample Rate	Range	Scaling
AI 1/1 Sim	Red	⊗	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0000000	IEPE	20 kHz	-3 V .. 3 V	Scale: 5 Offset: 0
AI 1/2 Sim	Green	⊗	<input type="checkbox"/>	<input type="checkbox"/>	0.0000000	Voltage	20 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
AI 1/3 Sim	Purple	⊗	<input type="checkbox"/>	<input type="checkbox"/>	-60.075852	Voltage	20 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
AI 1/4 Sim	Orange	⊗	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-3.0022798	IEPE	20 kHz	-3 V .. 3 V	Scale: 5 Offset: 0
AI 1/5 Sim	Blue	⊗	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-8.9977195	IEPE	20 kHz	-3 V .. 3 V	Scale: 5 Offset: 0
AI 1/6 Sim	Red	⊗	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-10.494299	IEPE	20 kHz	-3 V .. 3 V	Scale: 5 Offset: 0
AI 2/1 Sim	Red	⊗	<input type="checkbox"/>	<input type="checkbox"/>	0.0000000	Voltage	10 kHz	-10 V .. 10 V	Scale: 1 Offset: 0
AI 2/2 Sim	Green	⊗	<input type="checkbox"/>	<input type="checkbox"/>	-0.0095212	Voltage	10 kHz	-10 V .. 10 V	Scale: 1 Offset: 0
AI 2/3 Sim	Purple	⊗	<input type="checkbox"/>	<input type="checkbox"/>	-5.9815996	Voltage	10 kHz	-10 V .. 10 V	Scale: 1 Offset: 0
AI 2/4 Sim	Orange	⊗	<input type="checkbox"/>	<input type="checkbox"/>	-2.0036799	Voltage	10 kHz	-10 V .. 10 V	Scale: 1 Offset: 0
CAN 2/1 Sim	Blue	⊗	<input type="checkbox"/>	<input type="checkbox"/>	used as analog	High Speed			

# CHANNEL LIST – EXAMPLE PCB ICP 352A71



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## SPECIFICATIONS

<b>Model Number</b>	352A73
<b>Performance</b>	
Sensitivity	5 mV/g (3)
Range	±1,000 g pk (2)
Frequency Range (±5%)	2.0 – 10,000 Hz (4)
Resonant Frequency	≥70 kHz
Electrical Filter (low pass)	No
Broadband Resolution (g rms)	0.002
<b>Environmental</b>	
Overload Limit	±10,000 g pk
Temperature Range (operating)	-65 to +250 °F -54 to +121 °C
<b>Electrical</b>	
Excitation Voltage	18-30 VDC
Constant Current Excitation	2-20 mA (5)
<b>Physical</b>	
Housing Material	Titanium
Weight	0.01 oz 0.3 gm
Dimension A (see Outline Drawing)	0.16 in [4.1 mm]
Dimension B (see Outline Drawing)	0.27 in [6.8 mm]
Dimension C (see Outline Drawing)	0.11 in [2.8 mm]
<b>Accessories - Supplied</b>	
Removal Tool	039A26
Petro Wax	080A109

AI 1/1 SN:1234567890 352A73  
TRION-2402-dACC-6-BNC

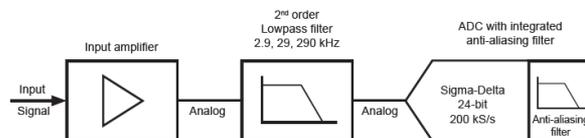
**AMPLIFIER OPTIONS**  
Mode: IEPE (1)  
Range: 10 (2) V  
Coupling: 160 mHz  
Sensor delay compens...: 0 ms  
Effective sensor delay c...: 0 ms

**IEPE SETTINGS**  
Excitation: Current (5) 4 mA

**SENSOR SCALING**  
Scaling type: Scaling  
Scaling:  Scaling  Sensitivity  
Unit: g  
Sensitivity: 0.005 (3) V/g  
Offset: 0 g Zero

TRION-2402-dACC-6-BNC  
352A73  
AI 1/1 @ 1000Hz/100ms TRION-2402-dACC-6-BNC  
-0.002211 AVG IEPE 50000 Hz -7 V.. 7 V Scale: 200 Offset: 0 Unit: g (4)

## TRION-2402 sample system architecture



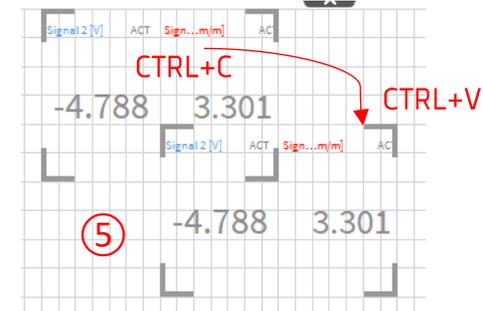
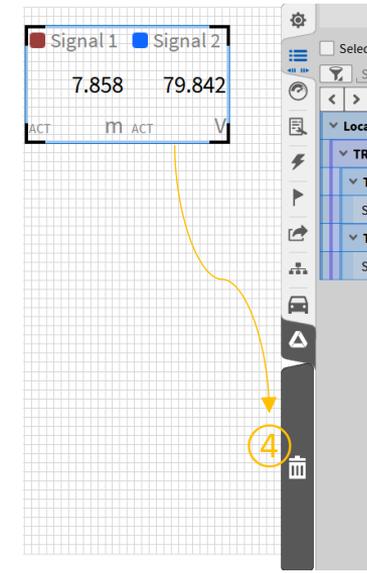
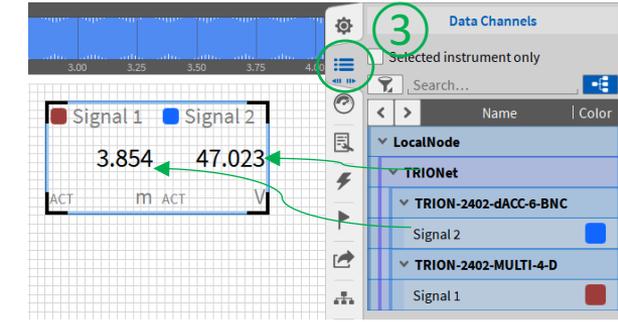
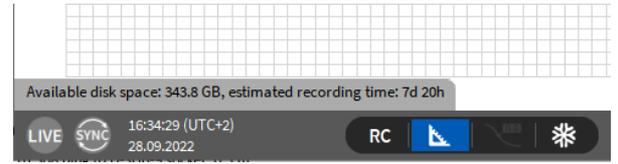
Sample rate	Max. analog filter bandwidth	Digital filter bandwidth	Oversampling
100 S/s to 1 kS/S	2.9 kHz	0.494 *fs	256 *fs
>1 k to 10 kS/S	29 kHz	0.494 *fs	256 *fs
>10 to 51.210 kS/S	290 kHz	0.494 *fs	256 *fs
>51.2 to 102.410 kS/S	290 kHz	0.5 *fs	128 *fs
>102.4 to 204.810 kS/S	290 kHz	0.38 *fs	64 *fs

# CONFIGURATION OF MEASUREMENT SCREENS



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- 1 Activate the *Design Mode* to change the screen layout (Grey grid in background)
- 2 Go to the Instruments menu and place instruments via drag and drop on the screen (Design Mode is also activated automatically when instrument is dropped)
- 3 Go to the data channels menu and select the channels to be displays by clicking (If several instruments are on the screen, the one with the blue frame is the active one)
- 4 To delete instruments from the screen, drag and drop them into the rubbish bin (Only available when Design Mode is active)
- When finished deactivate the Design Mode again to work with the data in the instruments
- 5 Copy (CTRL+C) - Paste (CTRL+V) to duplicate instruments



# INSTRUMENTS DISPLAYS - OVERVIEW



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The screenshot displays the DEWETRON Instruments software interface. At the top, there is a waveform display. Below it, several instrument displays are visible, including analog meters (1), digital meters (2), a recorder (3), a chart recorder (4), a bar meter (5), and an indicator (6). A table of data is shown in the center, with a zoomed-in view of a signal (7). A spectrum analyzer (11) is also visible. A text overlay 'This is a text' (9) is present, and the DEWETRON logo (8) is at the bottom right. A sidebar on the right contains icons for various instruments: Analog meter, Digital meter, Recorder, Chart recorder, Bar meter, Indicator, Table, Image, AI, Test, Spectrum analyzer, Video, XY plot, GPS plot, GPS quality, Spectrogram, Intensity diagram, Power, and BirdEye.

Time	Signal 1 [µm/m]	Signal 2 [V]
8:38.3630000	21.7602659903108	2.
8:38.3635000	24.01614332295318	2.
8:38.3634000	26.43656888226085	2.479003815591563
8:38.3633000	20.49493911832208	2.
8:38.3632000	12.15934825893332	2.
8:38.3631000	6.90436404373414	2.470444588991647
8:38.3630000	4.621267594174599	2.46774091245484
8:38.3629000	6.57463112918324	2.
8:38.3628000	7.894993298947411	2.
8:38.3627000	9.160280773656414	2.
8:38.3626000	6.272077934269782	2.
8:38.3625000	-3.57699415546620	2.
8:38.3624000	-7.7304846956184	2.
8:38.3623000	-3.79657767990694	2.
8:38.3622000	-1.89321434489830	2.
8:38.3621000	-7.75837944497939	2.443009760559187
8:38.3620000	-12.3245723440988	2.440385963939784
8:38.3619000	-4.42957904515141	2.
8:38.3618000	6.	2.
8:38.3617000	15.62547776850925	2.432000782012986
8:38.3616000	25.33605049217135	2.
8:38.3615000	26.5195385273357	2.
8:38.3614000	15.707321202003	2.424056674483816
8:38.3613000	6.452376714494055	2.421269561127994
8:38.3612000	6.90436404373414	2.418345357081017
8:38.3611000	9.87553655393667	2.
8:38.3610000	9.215359468711942	2.41270794944245
8:38.3609000	4.	2.

# SAVE/LOAD A SETUP FILE (DMS-FILE)



### Load Measurement Config

Data Folder: d:\DATA

Name	Size	Date
last.dms	110.3 kB	2020-02-06 16:25
dewetron_setup_20200205_103109.dms	148.3 kB	2020-02-05 10:31
dewetron_setup_20200130_152629.dms	117.6 kB	2020-01-30 15:47
Swept_sine_demo.dms	201.6 kB	2020-01-07 13:48
dewetron_setup_20191218_142346.dms	191.3 kB	2019-12-18 14:23
dewetron_setup_20191218_113213.dms	205.5 kB	2019-12-18 13:01
rsfaul.dms	127.7 kB	2019-12-18 09:27
dewetron_setup_20191117_093346.dms	793.6 kB	2019-11-17 09:33

Info Channels Headers

Oxygen Version: 5.6.1

Used Plugins: DEWETRON TRION, EncoderModule, SampleUnitConverter, TEDSChainElement

Cancel Open

### Save Measurement Config

Data Folder: d:\DATA

Name	Size	Date
last.dms	110.3 kB	2020-02-06 16:25
dewetron_setup_20200205_103109.dms	148.3 kB	2020-02-05 10:31
dewetron_setup_20200130_152629.dms	117.6 kB	2020-01-30 15:47
Swept_sine_demo.dms	201.6 kB	2020-01-07 13:48
dewetron_setup_20191218_142346.dms	191.3 kB	2019-12-18 14:23
dewetron_setup_20191218_113213.dms	205.5 kB	2019-12-18 13:01
rsfaul.dms	127.7 kB	2019-12-18 09:27
dewetron_setup_20191117_093346.dms	793.6 kB	2019-11-17 09:33
dewetron_setup_20191125_100054.dms	170.6 kB	2019-11-25 10:06
dewetron_setup_20191125_100409.dms	170.6 kB	2019-11-25 10:04
OA_Test_debug_channel020191121.dms	289.2 kB	2019-11-21 14:10
OA_Test_20191121.dms	452.7 kB	2019-11-21 09:39
Swept_Sine_Analysis.dms	207.7 kB	2019-11-14 07:54
dewetron_setup_20191114_074329.dms	205.5 kB	2019-11-14 07:43

File name: dewetron\_setup\_20200207\_08555

File type: \*.dms

Cancel Save



DEWETRON

# GENERATING AND ACCESSING MULTIPLE SCREENS

- ① Generates a new blank screen
- ② Deletes the currently selected /blue frame) screen
- ③ Duplicates the currently selected screen
- ④ Saves the currently selected screen as png or jpeg  
If an instrument is active (blue frame) only the selected instrument is saved as png or jpeg
- ⑤ Copies the currently selected screen to clipboard  
If an instrument is active (blue frame) only the selected instrument is copied

Screens

00:28:45 00:28:50

2

Available disk space: 6.7 GB, est

Screens

00:29:50 00:29:55

Sig...[V] AVGSig...[m]

2

Available disk space: 6.7 GB, est

Time	Signal 1 [µm/m]
00:30:49.5402000	4.
00:30:49.5401000	0.
00:30:49.5400000	-7.53808066475
00:30:49.5399000	-9.02366691968
00:30:49.5398000	4.
00:30:49.5397000	12.59923076359
00:30:49.5396000	1.
00:30:49.5395000	-11.5549571248
00:30:49.5394000	-12.3245723440
00:30:49.5393000	-11.6093165641
00:30:49.5392000	-13.6426497696
00:30:49.5391000	-3.82447265532
00:30:49.5390000	8.
00:30:49.5389000	5.
00:30:49.5388000	1.
00:30:49.5387000	8.
00:30:49.5386000	8.
00:30:49.5385000	-0.82540517004

Screens

00:30:39.6 00:30

Sig...[V] AVGSig...[m]

2

Available disk space: 6.7 GB, est

Time	Signal 1 [µm/m]
00:30:49.5402000	4.
00:30:49.5401000	0.
00:30:49.5400000	-7.53808066475
00:30:49.5399000	-9.02366691968
00:30:49.5398000	4.
00:30:49.5397000	12.59923076359
00:30:49.5396000	1.
00:30:49.5395000	-11.5549571248
00:30:49.5394000	-12.3245723440
00:30:49.5393000	-11.6093165641
00:30:49.5392000	-13.6426497696
00:30:49.5391000	-3.82447265532
00:30:49.5390000	8.
00:30:49.5389000	5.
00:30:49.5388000	1.
00:30:49.5387000	8.
00:30:49.5386000	8.
00:30:49.5385000	-0.82540517004

# UNDOCKING SCREENS



DEWETRON

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- 1 Select the respective screen and keep the left mouse button pressed for 2 seconds until the blue frame becomes bold
- 2 Keep the mouse button pressed and move it away from the software; Release the mouse button afterwards

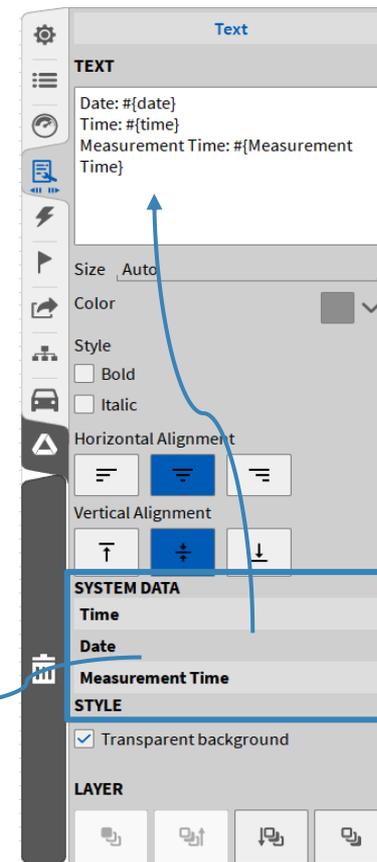
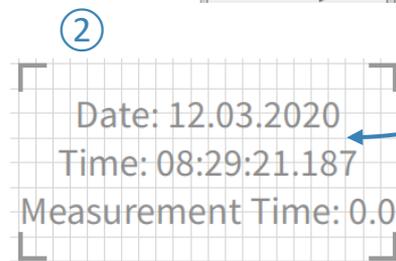
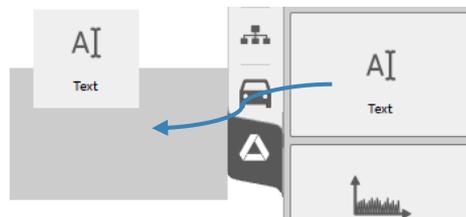
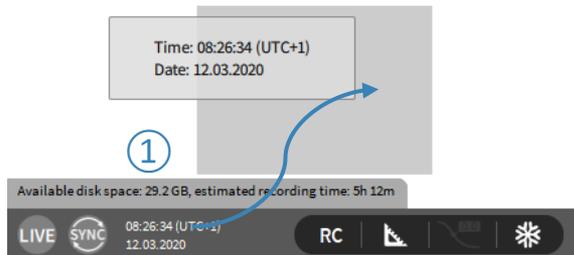
The screenshot displays the DEWETRON software interface with several data screens. A blue arrow points from the first instruction to a screen titled "Screen 1 - Oxygen" which shows a signal plot and numerical values: -1.041 and -3.577. A second blue arrow points from the second instruction to a screen titled "Screen 2 - Oxygen" which shows a signal plot and numerical values: -3.517 and 1.513. Below the screens, a table of data is visible:

Time	Signal 1 [µm/m]	Signal 2 [V]
00:50:00.7902000	-0.5700249462	-1.042824293940
00:50:00.7922000	-0.54825712517	-1.0380038440504
00:50:00.7942000	0	-1.0307944542713
00:50:00.7962000	0	-1.0234444444444
00:50:00.7982000	0	-1.0160888888889
00:50:00.7992000	0	-1.0087333333333
00:50:00.7992000	0	-1.0013777777778
00:50:00.7992000	0	-0.9940222222222
00:50:00.7992000	0	-0.9866666666667
00:50:00.7992000	0	-0.9793111111111
00:50:00.7992000	0	-0.9719555555556
00:50:00.7992000	0	-0.9646000000000
00:50:00.7992000	0	-0.9572444444444
00:50:00.7992000	0	-0.9498888888889
00:50:00.7992000	0	-0.9425333333333
00:50:00.7992000	0	-0.9351777777778
00:50:00.7992000	0	-0.9278222222222
00:50:00.7992000	0	-0.9204666666667
00:50:00.7992000	0	-0.9131111111111
00:50:00.7992000	0	-0.9057555555556
00:50:00.7992000	0	-0.8984000000000
00:50:00.7992000	0	-0.8910444444444
00:50:00.7992000	0	-0.8836888888889
00:50:00.7992000	0	-0.8763333333333
00:50:00.7992000	0	-0.8689777777778
00:50:00.7992000	0	-0.8616222222222
00:50:00.7992000	0	-0.8542666666667
00:50:00.7992000	0	-0.8469111111111
00:50:00.7992000	0	-0.8395555555556
00:50:00.7992000	0	-0.8322000000000
00:50:00.7992000	0	-0.8248444444444
00:50:00.7992000	0	-0.8174888888889
00:50:00.7992000	0	-0.8101333333333
00:50:00.7992000	0	-0.8027777777778
00:50:00.7992000	0	-0.7954222222222
00:50:00.7992000	0	-0.7880666666667
00:50:00.7992000	0	-0.7807111111111
00:50:00.7992000	0	-0.7733555555556
00:50:00.7992000	0	-0.7660000000000
00:50:00.7992000	0	-0.7586444444444
00:50:00.7992000	0	-0.7512888888889
00:50:00.7992000	0	-0.7439333333333
00:50:00.7992000	0	-0.7365777777778
00:50:00.7992000	0	-0.7292222222222
00:50:00.7992000	0	-0.7218666666667
00:50:00.7992000	0	-0.7145111111111
00:50:00.7992000	0	-0.7071555555556
00:50:00.7992000	0	-0.6998000000000
00:50:00.7992000	0	-0.6924444444444
00:50:00.7992000	0	-0.6850888888889
00:50:00.7992000	0	-0.6777333333333
00:50:00.7992000	0	-0.6703777777778
00:50:00.7992000	0	-0.6630222222222
00:50:00.7992000	0	-0.6556666666667
00:50:00.7992000	0	-0.6483111111111
00:50:00.7992000	0	-0.6409555555556
00:50:00.7992000	0	-0.6336000000000
00:50:00.7992000	0	-0.6262444444444
00:50:00.7992000	0	-0.6188888888889
00:50:00.7992000	0	-0.6115333333333
00:50:00.7992000	0	-0.6041777777778
00:50:00.7992000	0	-0.5968222222222
00:50:00.7992000	0	-0.5894666666667
00:50:00.7992000	0	-0.5821111111111
00:50:00.7992000	0	-0.5747555555556
00:50:00.7992000	0	-0.5674000000000
00:50:00.7992000	0	-0.5600444444444
00:50:00.7992000	0	-0.5526888888889
00:50:00.7992000	0	-0.5453333333333
00:50:00.7992000	0	-0.5379777777778
00:50:00.7992000	0	-0.5306222222222
00:50:00.7992000	0	-0.5232666666667
00:50:00.7992000	0	-0.5159111111111
00:50:00.7992000	0	-0.5085555555556
00:50:00.7992000	0	-0.5012000000000
00:50:00.7992000	0	-0.4938444444444
00:50:00.7992000	0	-0.4864888888889
00:50:00.7992000	0	-0.4791333333333
00:50:00.7992000	0	-0.4717777777778
00:50:00.7992000	0	-0.4644222222222
00:50:00.7992000	0	-0.4570666666667
00:50:00.7992000	0	-0.4497111111111
00:50:00.7992000	0	-0.4423555555556
00:50:00.7992000	0	-0.4350000000000
00:50:00.7992000	0	-0.4276444444444
00:50:00.7992000	0	-0.4202888888889
00:50:00.7992000	0	-0.4129333333333
00:50:00.7992000	0	-0.4055777777778
00:50:00.7992000	0	-0.3982222222222
00:50:00.7992000	0	-0.3908666666667
00:50:00.7992000	0	-0.3835111111111
00:50:00.7992000	0	-0.3761555555556
00:50:00.7992000	0	-0.3688000000000
00:50:00.7992000	0	-0.3614444444444
00:50:00.7992000	0	-0.3540888888889
00:50:00.7992000	0	-0.3467333333333
00:50:00.7992000	0	-0.3393777777778
00:50:00.7992000	0	-0.3320222222222
00:50:00.7992000	0	-0.3246666666667
00:50:00.7992000	0	-0.3173111111111
00:50:00.7992000	0	-0.3100000000000
00:50:00.7992000	0	-0.3026444444444
00:50:00.7992000	0	-0.2952888888889
00:50:00.7992000	0	-0.2879333333333
00:50:00.7992000	0	-0.2805777777778
00:50:00.7992000	0	-0.2732222222222
00:50:00.7992000	0	-0.2658666666667
00:50:00.7992000	0	-0.2585111111111
00:50:00.7992000	0	-0.2511555555556
00:50:00.7992000	0	-0.2438000000000
00:50:00.7992000	0	-0.2364444444444
00:50:00.7992000	0	-0.2290888888889
00:50:00.7992000	0	-0.2217333333333
00:50:00.7992000	0	-0.2143777777778
00:50:00.7992000	0	-0.2070222222222
00:50:00.7992000	0	-0.1996666666667
00:50:00.7992000	0	-0.1923111111111
00:50:00.7992000	0	-0.1849555555556
00:50:00.7992000	0	-0.1776000000000
00:50:00.7992000	0	-0.1702444444444
00:50:00.7992000	0	-0.1628888888889
00:50:00.7992000	0	-0.1555333333333
00:50:00.7992000	0	-0.1481777777778
00:50:00.7992000	0	-0.1408222222222
00:50:00.7992000	0	-0.1334666666667
00:50:00.7992000	0	-0.1261111111111
00:50:00.7992000	0	-0.1187555555556
00:50:00.7992000	0	-0.1114000000000
00:50:00.7992000	0	-0.1040444444444
00:50:00.7992000	0	-0.0966888888889
00:50:00.7992000	0	-0.0893333333333
00:50:00.7992000	0	-0.0819777777778
00:50:00.7992000	0	-0.0746222222222
00:50:00.7992000	0	-0.0672666666667
00:50:00.7992000	0	-0.0600000000000
00:50:00.7992000	0	-0.0526444444444
00:50:00.7992000	0	-0.0452888888889
00:50:00.7992000	0	-0.0379333333333
00:50:00.7992000	0	-0.0305777777778
00:50:00.7992000	0	-0.0232222222222
00:50:00.7992000	0	-0.0158666666667
00:50:00.7992000	0	-0.0085111111111
00:50:00.7992000	0	-0.0011555555556
00:50:00.7992000	0	0.0062000000000
00:50:00.7992000	0	0.0135555555556
00:50:00.7992000	0	0.0209111111111
00:50:00.7992000	0	0.0282666666667
00:50:00.7992000	0	0.0356222222222
00:50:00.7992000	0	0.0429777777778
00:50:00.7992000	0	0.0503333333333
00:50:00.7992000	0	0.0576888888889
00:50:00.7992000	0	0.0650444444444
00:50:00.7992000	0	0.0724000000000
00:50:00.7992000	0	0.0797555555556
00:50:00.7992000	0	0.0871111111111
00:50:00.7992000	0	0.0944666666667
00:50:00.7992000	0	0.1018222222222
00:50:00.7992000	0	0.1091777777778
00:50:00.7992000	0	0.1165333333333
00:50:00.7992000	0	0.1238888888889
00:50:00.7992000	0	0.1312444444444
00:50:00.7992000	0	0.1386000000000
00:50:00.7992000	0	0.1459555555556
00:50:00.7992000	0	0.1533111111111
00:50:00.7992000	0	0.1606666666667
00:50:00.7992000	0	0.1680222222222
00:50:00.7992000	0	0.1753777777778
00:50:00.7992000	0	0.1827333333333
00:50:00.7992000	0	0.1900888888889
00:50:00.7992000	0	0.1974444444444
00:50:00.7992000	0	0.2048000000000
00:50:00.7992000	0	0.2121555555556
00:50:00.7992000	0	0.2195111111111
00:50:00.7992000	0	0.2268666666667
00:50:00.7992000	0	0.2342222222222
00:50:00.7992000	0	0.2415777777778
00:50:00.7992000	0	0.2489333333333
00:50:00.7992000	0	0.2562888888889
00:50:00.7992000	0	0.2636444444444
00:50:00.7992000	0	0.2710000000000
00:50:00.7992000	0	0.2783555555556
00:50:00.7992000	0	0.2857111111111
00:50:00.7992000	0	0.2930666666667
00:50:00.7992000	0	0.3004222222222
00:50:00.7992000	0	0.3077777777778
00:50:00.7992000	0	0.3151333333333
00:50:00.7992000	0	0.3224888888889
00:50:00.7992000	0	0.3298444444444
00:50:00.7992000	0	0.3372000000000
00:50:00.7992000	0	0.3445555555556
00:50:00.7992000	0	0.3519111111111
00:50:00.7992000	0	0.3592666666667
00:50:00.7992000	0	0.3666222222222
00:50:00.7992000	0	0.3739777777778
00:50:00.7992000	0	0.3813333333333
00:50:00.7992000	0	0.3886888888889
00:50:00.7992000	0	0.3960444444444
00:50:00.7992000	0	0.4034000000000
00:50:00.7992000	0	0.4107555555556
00:50:00.7992000	0	0.4181111111111
00:50:00.7992000	0	0.4254666666667
00:50:00.7992000	0	0.4328222222222
00:50:00.7992000	0	0.4401777777778
00:50:00.7992000	0	0.4475333333333
00:50:00.7992000	0	0.4548888888889
00:50:00.7992000	0	0.4622444444444
00:50:00.7992000	0	0.4696000000000
00:50:00.7992000	0	0.4769555555556
00:50:00.7992000	0	0.4843111111111
00:50:00.7992000	0	0.4916666666667
00:50:00.7992000	0	0.4990222222222
00:50:00.7992000	0	0.5063777777778
00:50:00.7992000	0	0.5137333333333
00:50:00.7992000	0	0.5210888888889
00:50:00.7992000	0	0.5284444444444
00:50:00.7992000	0	0.5358000000000
00:50:00.7992000	0	0.5431555555556
00:50:00.7992000	0	0.5505111111111
00:50:00.7992000	0	0.5578666666667
00:50:00.7992000	0	0.5652222222222
00:50:00.7992000	0	0.5725777777778
00:50:00.7992000	0	0.5799333333333
00:50:00.7992000	0	0.5872888888889
00:50:00.7992000	0	0.5946444444444
00:50:00.7992000	0	0.6020000000000
00:50:00.7992000	0	0.6093555555556
00:50:00.7992000	0	0.6167111111111
00:50:00.7992000	0	0.6240666666667
00:50:00.7992000	0	0.6314222222222
00:50:00.7992000	0	0.6387777777778
00:50:00.7992000	0	0.6461333333333
00:50:00.7992000	0	0.6534888888889
00:50:00.7992000	0	0.66084



# DISPLAY TIME, DATE AND MEASUREMENT TIME ON THE SCREEN

- 1 Drag and drop time and date from the Action bar to the screen  
Generates a text instrument
- 2 Drag and drop a text instrument to the screen, open its properties and drag and drop time, date and measurement (recording) time to it



# SYSTEM SETTINGS – STORING & FILENAME



DEWETRON

- 1 Specify the default folder for data file storage
- 2 Specify a recording filename
- 3 Specify the default folder for data export
- 4 If enabled, a popup appears after pressing the Rec button to specify the file name
- 5 When a recording is finished, the created data file will be opened automatically in Oxygen Viewer

**Oxygen Setup**

**Storing & Filename**

Startup Settings

Advanced Settings

Hardware

DAQ Hardware

Amplifier / RS232 / RS485

Sensors

Remote Control

Remote Control

User Interface

Localization

UI Options

Advanced Graphics

System Information

Component Versions

Errors and Warnings

Plugin Overview

License

OXYGEN Features

Developer

QML Sandbox

Quit to OS

Shutdown System...

[Jump to measurement settings](#)

**Storing & Filename**

**DATA STORING**

Data folder **1** C:/DATA/ Browse...

Export folder **3** C:/Users/MFuchs Browse...

**RECORDING FILENAME**

m\_{Date}\_#{Time} **2**

Time, Local 14:16:08	Date, Local 2022/09/29	Counter, Local 167
Time, UTC 12:16:08	Date, UTC 2022/09/29	Counter, Session 0
Time, hh-mm-ss 14-16-08	Date, dd-MM-yy 29-09-22	

Filename preview  
m\_20220929\_141608.dmd

Local Counter  
167

Ask for filename before recording start **4**

Automatically open DMD after measurement with Oxygen Viewer **5**

# SYSTEM SETTINGS – STARTUP SETTINGS



DEWETRON

①	Specify the startup behaviour of the software by selecting a certain setup to be loaded while startup

The screenshot shows the 'Oxygen Setup' application interface. On the left is a sidebar menu with icons for various settings categories. The main window is titled 'Startup Settings' and contains a section labeled 'STARTUP BEHAVIOUR' with a circled '1' next to it. This section has three radio button options: 'Default', 'Empty setup' (which is selected), and 'Last setup'. Below these is a 'Load setup file' option with a 'Browse...' button. At the bottom of the sidebar, there are buttons for 'Quit to OS' and 'Shutdown System...', and a link for 'Jump to measurement settings'.

# SYSTEM SETTINGS – ADVANCED SETTINGS



DEWETRON

①	If enabled it is possible during recording to look into the past just by swiping to the right in the recording window
②	Defines the duration of the freeze buffer, a higher duration leads to a increased memory consumption
③	If an IRIG or GPS signal is received via a TRION-BASE, TRION-TIMING or TRION-VGPS module and will be used for synchronization, this option allows to set the system time of the PC Oxygen is running to this timing signal. (min. every 10 sec)
④	If enabled, it is not possible to shut down Oxygen during a recording.
⑤	If enabled any interactive UI prompts will not be shown and a default response will be assumed

The screenshot shows the 'Advanced Settings' window in the Oxygen software. The left sidebar contains a menu with categories: Storing & Filename, Startup Settings, Advanced Settings (selected), Hardware (DAQ Hardware, Amplifier / RS232 / RS485, Sensors), Remote Control, User Interface (Localization, UI Options, Advanced Graphics), System Information (Component Versions, Errors and Warnings, Plugin Overview, License, OXYGEN Features), Developer (QML Sandbox), and buttons for 'Quit to OS' and 'Shutdown System...'. The main area is titled 'Advanced Settings' and contains several sections:

- INSTRUMENTS**: 'DejaView enabled' (checked, ①), 'Max. DejaView files to keep (0 = all) 100'.
- FREEZE BUFFER** (②): 'Minimum duration 0 s, Maximum duration 20 s'. A note states: 'By default the length of the freeze buffer depends on the configured sample rates and varies between 1 and 20 seconds. Forcing this to higher values will lead to increased memory consumption.'
- SYSTEM TIME SYNCHRONIZATION** (③): 'Feature not available because OXYGEN has insufficient permissions!'. 'Synchronize operating system time with acquisition time (if available)' (unchecked). 'Synchronize every 10 s after acquisition start.'
- MISCELLANEOUS SETTINGS**: 'Prevent OXYGEN from shutdown during measurement' (checked, ④), 'Suppress all confirmation prompts' (unchecked, ⑤). A note states: 'Setting this option prevents any interactive UI prompts from showing up and assumes a default response. This may be used during automated operation of OXYGEN but can have unintended effects for normal usage scenarios.'

At the bottom, there is a link: [Jump to measurement settings](#)

# SYSTEM SETTINGS – HEADER DATA



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- 1 The +-button adds a Header input field consisting of Name and Description
- 2 Select between text header and numeric header that can be further processed in formulas
- 3 The name should include the general purpose of the header field and can be filled arbitrarily
- 4 The description should include the relevant information for each data recording
- 5 If Prompt at Recording start/stop is selected, a popup opens after pressing the Record button and requests the user to fill out the Description field (Recording is already running even if the popup is still open)
- 6 If Mandatory is selected as well, the popup can only be opened after entering a Description
- 7 Headers can be added to the screen by dragging and dropping them from the System Settings menu  
Text instrument is generated

Header (Meta) Data can be created in „System Settings → Header Data“ to add test relevant information to the data file, like date of the test, the operator name, running speed of a DUT or other environmental conditions

Type	Name	Value	Prompt	Mandatory	+
Text	Company	= DEWETRON	Never	<input type="checkbox"/>	-
Text	Operator	= Manual & Documentation	Recording start	<input type="checkbox"/>	-
Text	Version	= R5.6	Recording stop	<input checked="" type="checkbox"/>	-
Formula constant	Reference Velocity [kmh]	= 80	Never	<input type="checkbox"/>	-

Name	Description
Operator	= DEWETRON
Running Speed [rpm]	=

System Settings

DATA STORING

Filename prefix: m\_

Filename preview: m\_yyyyymmdd\_hhmmss.dmd

HEADER DATA

Date: 2020 02 14

Date: 2020 02 14

Operator: DEWETRON

Running Speed [rpm]: 3000

### Open Data File

Data Folder: D:/ DATA

Name	Size	Date
<input checked="" type="checkbox"/> m_20200414_154711.dmd	2.0 MB	2020-04-14 15:47
<input type="checkbox"/> m_20200414_154720.dmd	3.3 MB	2020-04-14 15:47

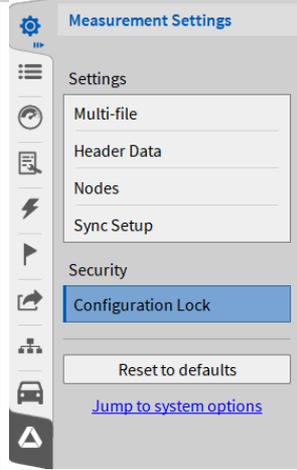
Info Channels Headers

Name	Description
Date	2020 02 14
Operator	DEWETRON
Running Speed [rpm]	3000

Data files can be selected according to Header data while loading a data file from the OXYGEN file browser

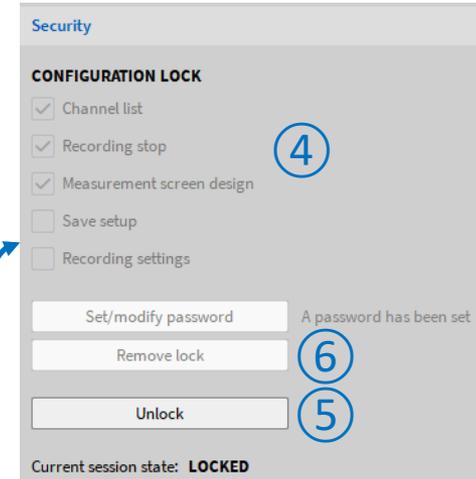
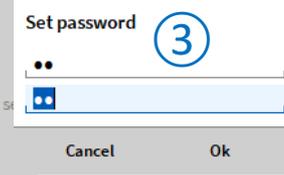
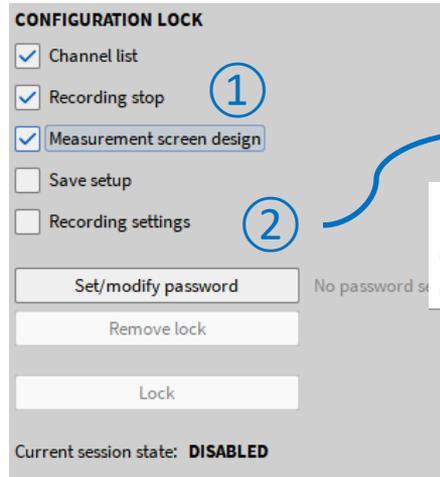
# SYSTEM SETTINGS – SETUP SECURITY

- 1 Select the settings that shall be locked
- 2 Press *Set/modify password*
- 3 Enter the password and confirm it
- 4 The selected settings will be locked afterwards
- 5 To unlock the settings again, press the *Unlock* button and enter the password
- 6 To remove the lock from the setup again, press *Remove lock* in the unlocked state



In „System Settings → Security“, the user can protect certain measurement setup settings by password against unwanted or unauthorized changes.

If Enabled: Automatic Lock on Setup Load





# AUDIO REPLAY

- ① It's possible to replay channels via the default PC sound card by using the Audio Player Instrument
- ② Possibility to Mute channels
- ③ Possibility to set the volume
- ④ Possibility to change the left-right Balance

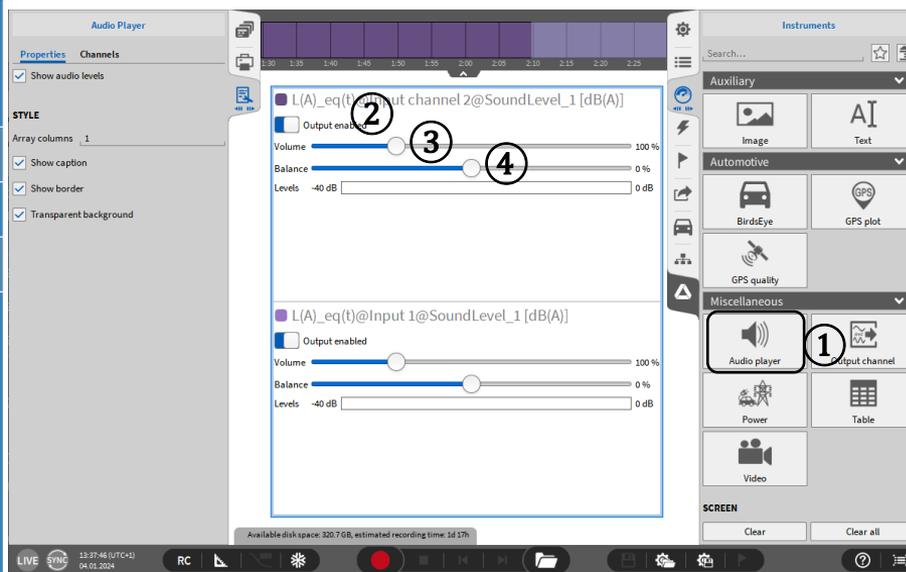
Maximum number of replay channels per instrument is 2.

Recommended sample rate of replay channels is from 1 kHz to 200 kHz

Replay is available in LIVE, REC and PLAY mode.

In LIVE and REC mode, the actual data is replayed.

In PLAY mode, replay is snapped to Orange cursor (⑤).



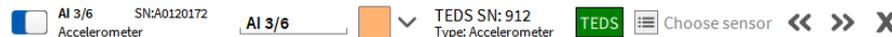
# TEDS SUPPORT



DEWETRON

- TEDS data can be read out and applied to channel settings
- Template 25 ... 33 according to IEEE1451.4 supported
  - TEDS support for TRION-2402-MULTI
  - TRION(3)-18x0-MULTI
  - TRION-2402-dACC (IEPE mode only)

- > For TRION-MULTI:
  - > TEDS scan is always active when Channel List is open
  - > TEDS is automatically recognized when connected
- > For TRION-2402-dACC
  - > Open Channel Setup and select IEPE mode
  - > Click on the TEDS icon to activate TEDS scan
- > If TEDS is recognized, the icon will become green and the settings will be applied to the channel



AMPLIFIER OPTIONS	IEPE SETTINGS	SENSOR SCALING
Mode: IEPE	Excitation: Current 4 mA	General TEDS
Range: 3045.859 m/s <sup>2</sup>		Type: Sensitivity
		Sensitivity: 9.8e-3 V/(m/s <sup>2</sup> )
Coupling: 0.16 Hz		Offset: 0 m/s <sup>2</sup>

Detailed TEDS info can be displayed

AI 3/3 TEDS SN: 912 Type: Accelerometer TEDS Choose sensor <<

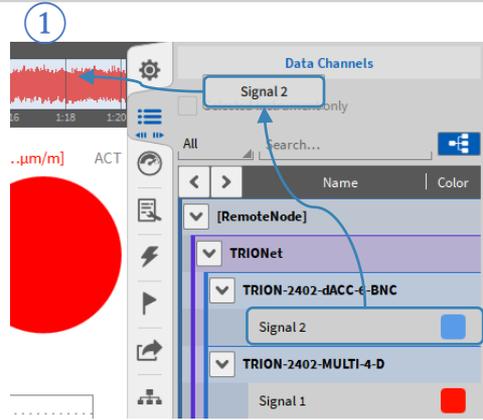
**TEDS Information**

TEDS: Manufacturer 35, Model 3097, Version 2A, Serial 912  
 Template #25: Accelerometer and Force Transducer

Name	Value	Unit	Access Level
Sens@Ref	0.009849	V/(m/s <sup>2</sup> )	CAL
TF_HP_S	0.081969	Hz	CAL
Direction	x		CAL
Weight	4.600512	g	CAL
ElecSigType	Voltage Sensor		ID

Ok

Template ID	Name of template
25	Accelerometer/Force transducer w. const. curr. ampl.
26	Charge amplifier (incl. attached accelerometer)
27	Microphones w. built-in preamp.
28	Microphone preamps. w. attached micr. or system
29	Microphones (capacitive)
30	High-level voltage output sensors
31	Current loop output sensors
32	Resistance sensors
33	Bridge sensors



Change the signal displayed in the overview bar by dragging and dropping it from the Channel List

Software State *Live*:  
Data is acquired but not stored to HDD

(Un-)locks the screen

Start data storing

Open data file

Swap between current screen/menu and Channel List



SYNC: Indicates the sync Status in case of external synchronization

(De-)Activate Design Mode

Holds the time for instruments

Load Setup file

Store Setup file