

THE MEASURABLE DIFFERENCE.



DEWETRON



OXYGEN TRAINING > SETUP GENERATION





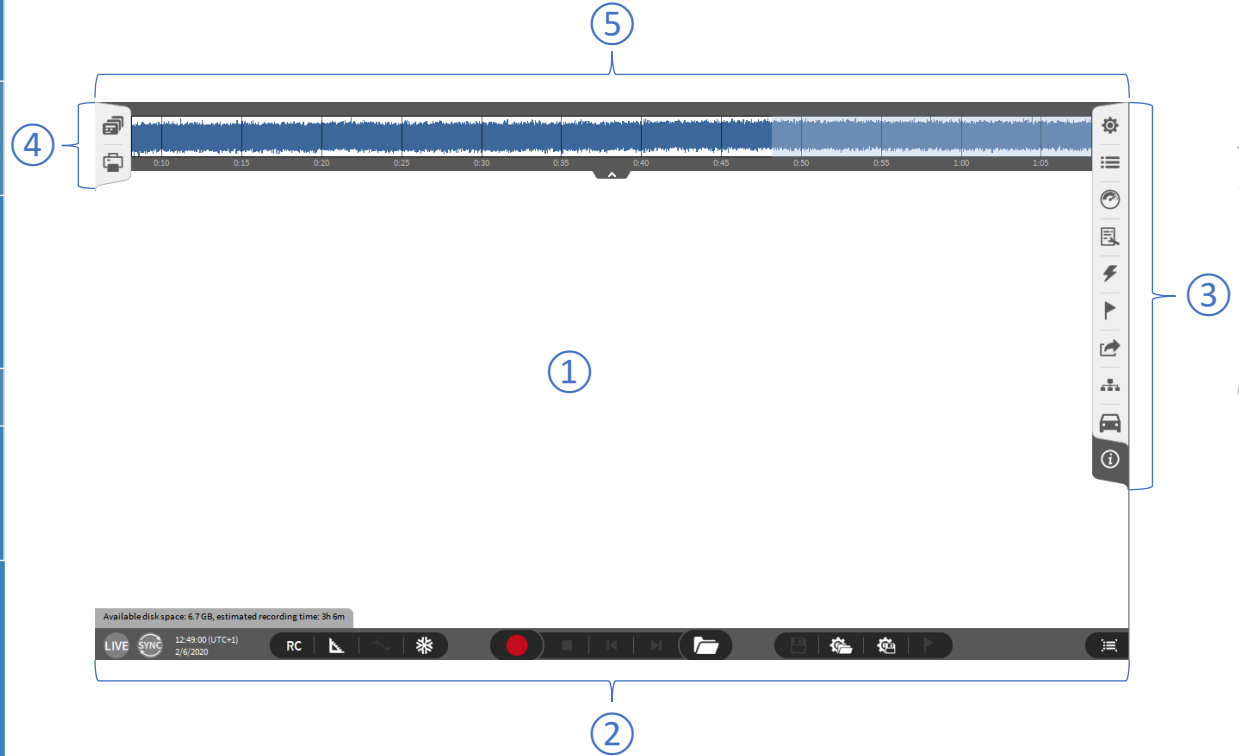
- > Software Overview
- > Channel List & Channel Setup
- > Sample Rate Selection (board-wise & channel-wise)
- > Multi-channel configuration
- > Measurement screen configuration
- > Instruments overview
- > Load & Save setups
- > Configuration of multiple screens and undocking of screens
- > Display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

SOFTWARE OVERVIEW



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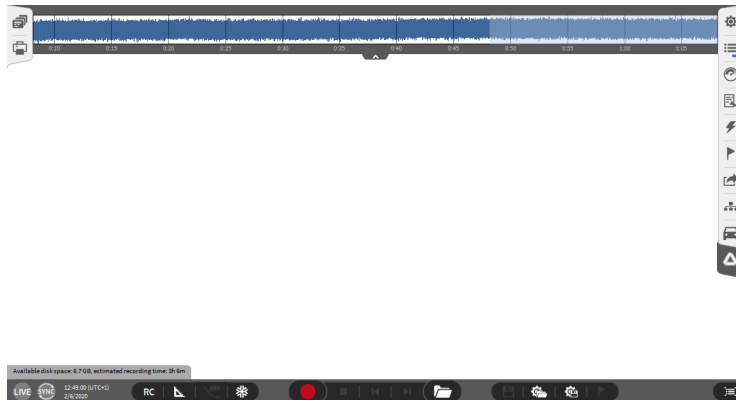
- ① Measurement screen
Displays for data visualization can be placed here
- ② Action Bar
Contains all relevant control buttons
- ③ Menu bar
Menus for General Software Settings, hardware channel access, recording mode, data export and others
- ④ Menu bar cont'd
- ⑤ Overview bar
One data channel can be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



SOFTWARE OVERVIEW

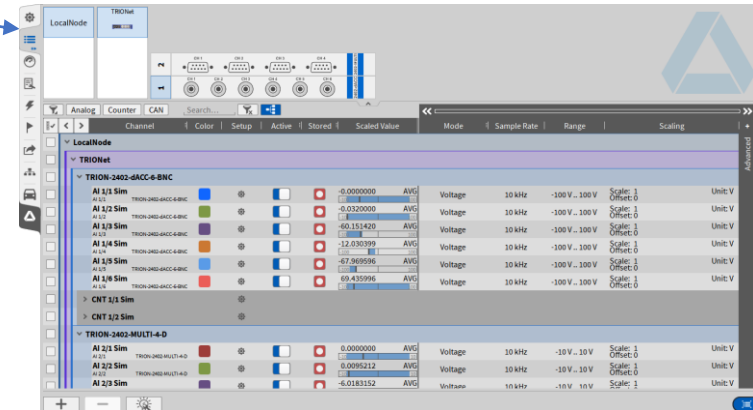
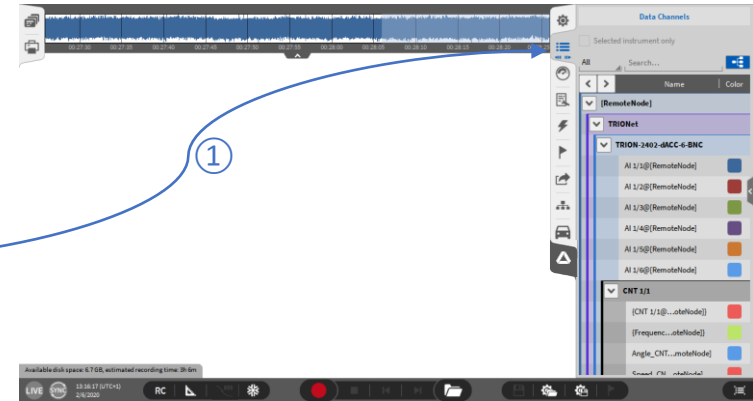
Software operation is inspired by touch operation of smart phones and tablets

- 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





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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 shows the Dewetron software interface. At the top, there is a menu bar with 'LocalNode', 'TRIONet', and 'ANALOG' tabs. Below the menu bar is a schematic of the measurement hardware (1). The main area displays a list of channels (2) with columns for Channel, Color, Setup, Active, Stored, Scaled Value, Mode, Sample Rate, Range, and Scaling. The channels are sorted in list view (3). A math section (4) is visible at the bottom, and a setup button (5) is highlighted for each channel.

Channel	Color	Setup	Active	Stored	Scaled Value	Mode	Sample Rate	Range	Scaling
AI 1/1 Sim	Blue	TRION-2402-dACC-6-BNC	On	Off	-0.0000000	AVG	10 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
AI 1/2 Sim	Green	TRION-2402-dACC-6-BNC	On	Off	-0.0320000	AVG	10 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
AI 1/3 Sim	Purple	TRION-2402-dACC-6-BNC	On	Off	60.151420	AVG	10 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
AI 1/4 Sim	Orange	TRION-2402-dACC-6-BNC	On	Off	19.969599	AVG	10 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
AI 1/5 Sim	Blue	TRION-2402-dACC-6-BNC	On	Off	60.030396	AVG	10 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
AI 1/6 Sim	Red	TRION-2402-dACC-6-BNC	On	Off	-9.9239994	AVG	10 kHz	-100 V .. 100 V	Scale: 1 Offset: 0
CNT 1/1 Sim	Grey		On	Off					
CNT 1/2 Sim	Grey		On	Off					
AI 2/1 Sim	Red	TRION-2402-MULTI-4-D	On	Off	0.0000000	AVG	10 kHz	-10 V .. 10 V	Scale: 1 Offset: 0
AI 2/2 Sim	Green	TRION-2402-MULTI-4-D	On	Off	0.0095212	AVG	10 kHz	-10 V .. 10 V	Scale: 1 Offset: 0
AI 2/3 Sim	Purple	TRION-2402-MULTI-4-D	On	Off	6.0183152	AVG	10 kHz	-10 V .. 10 V	Scale: 1 Offset: 0

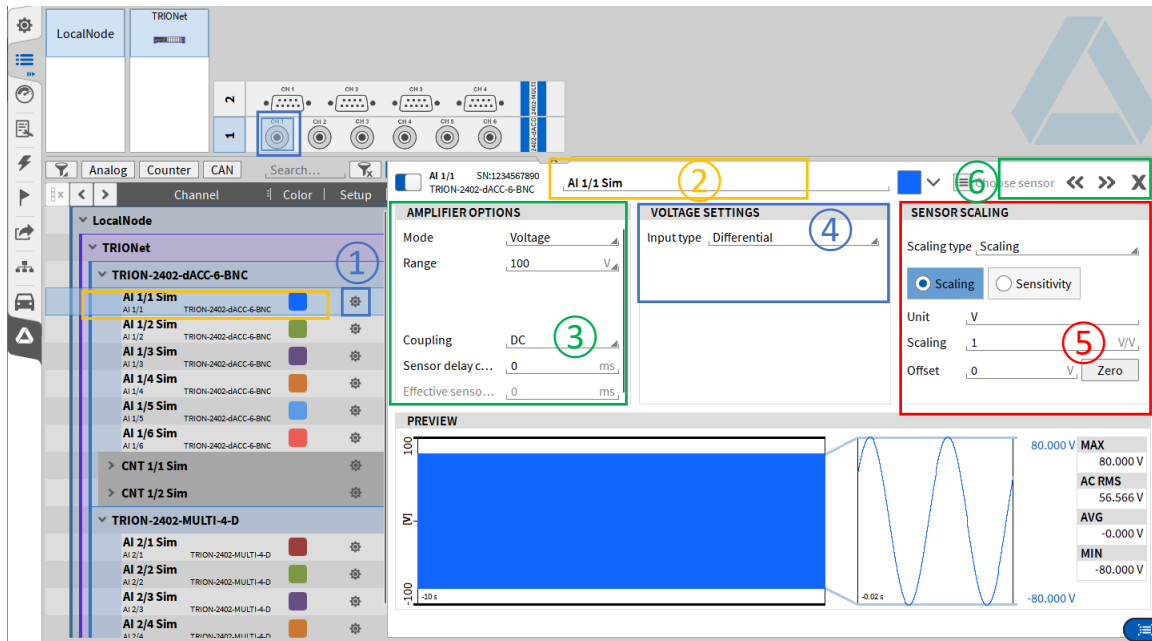


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CHANNEL LIST – HARDWARE CHANNEL CONFIGURATION

- 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



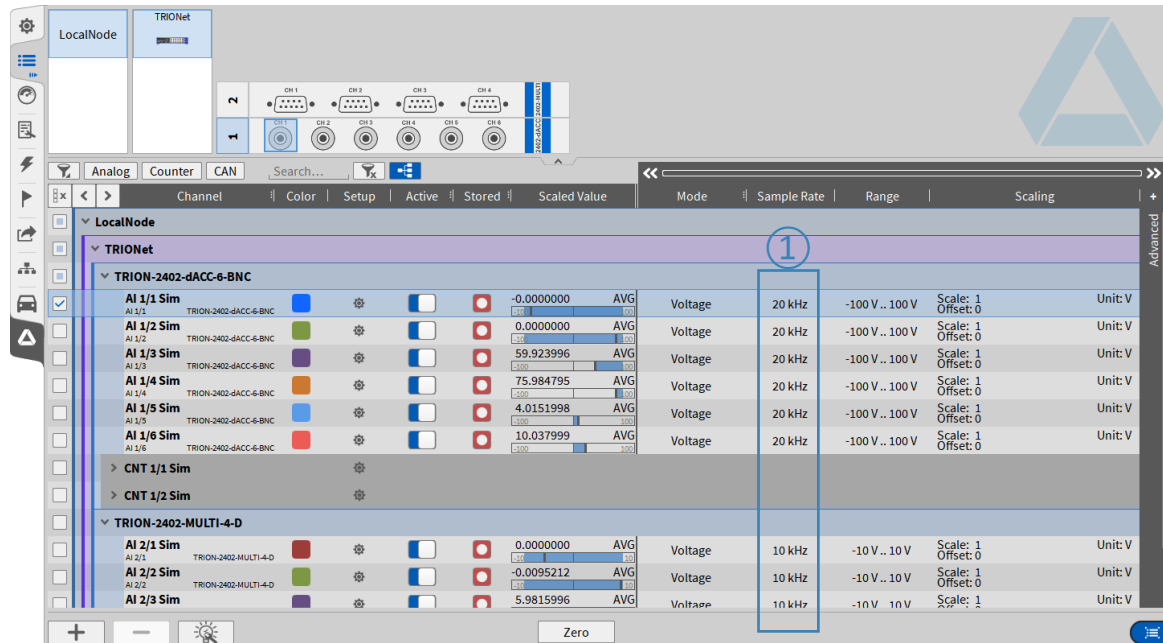
CHANNEL LIST – BOARD-WISE SAMPLE RATE SELECTION

- > 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

Channel	Mode	Sample Rate	Range	Scaling
LocalNode				
TRIONet				
TRION-2402-dACC-6-BNC				
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
TRION-2402-MULTI-4-D				
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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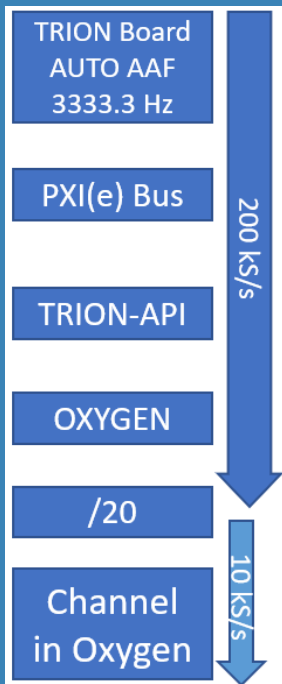
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CHANNEL LIST – CHANNEL-WISE SAMPLE RATE SELECTION

- 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 DEWETRON software interface. The 'Channel List' on the left lists several channels under 'LocalNode' and 'TRIONet'. The 'Sample Rate' dialog box is open, showing the 'Enable reduction' checkbox checked and the 'Target rate' set to 10 kHz. The dialog also shows the 'Samplerate' as 200000 Hz. The 'Sample Rate' dialog box has two callouts: ① pointing to the 'Sample Rate' column in the channel list and ② pointing to the 'Enable reduction' checkbox.

Channel	Color	Setup	Active	Stored	Scaled Value	Mode	Sample Rate	Range	Scaling
LocalNode									
TRIONet									
TRION-2402-dACC-6-BNC									
TRION-2402-MULTI-4-D									
AI 2/1 Sim					-0.0000000	AVG	200 kHz	-10 V.. 10 V	Scale: 1 Offset: 0
AI 2/2 Sim					-0.0000000	AVG	10 kHz	-10 V.. 10 V	Scale: 1 Offset: 0
AI 2/3 Sim					1.9963999	AVG	2 kHz	-10 V.. 10 V	Scale: 1 Offset: 0
AI 2/4 Sim					-3.6000638	AVG	100 kHz	-10 V.. 10 V	Scale: 1 Offset: 0
CAN 2/1 Sim						used as analog			



- > 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



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CHANNEL LIST – CHANNEL-WISE SAMPLE RATE SELECTION

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 Hz

☒ Enable reduction

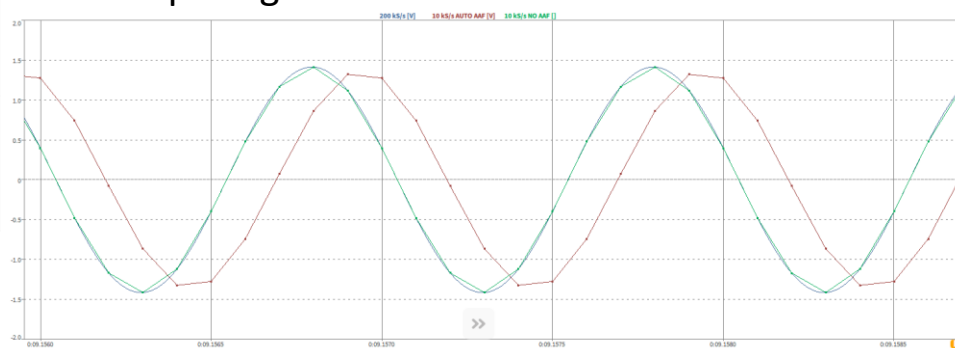
Target rate Hz

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

Advanced +

-
- The screenshot displays the NI-MAX software interface for configuring a TRIONNet module. The interface is divided into several panes:
- Left Pane:** Shows the hardware tree. The 'LocalNode' is expanded, showing 'TRIONNet' and 'TRION-2402-dACC-6-BNC'. The 'TRION-2402-dACC-6-BNC' is further expanded, showing channels 'AI 1/1 Sim', 'AI 1/2 Sim', 'AI 1/3 Sim', 'AI 1/4 Sim', 'AI 1/5 Sim', and 'AI 1/6 Sim'. The 'AI 1/1 Sim' channel is selected.
 - Middle Pane:** Shows the configuration for the selected channel. It has columns for 'Channel', 'Color', 'Setup', 'Active', 'Stored', and 'Scaled Value'. The 'AI 1/1 Sim' channel is highlighted in blue. The 'Active' column has a red circle around it, and the 'Stored' column has a green circle around it.
 - Right Pane:** Shows the configuration for the 'TRION-2402-MULTI-4-D' module. It has columns for 'Mode', 'Sample Rate', 'Range', and 'Scaling'. The 'Mode' column has a blue circle around it, and the 'Range' column has a red circle around it. A red arrow points from the 'Advanced' tab in the right pane to the 'TRION-2402-MULTI-4-D' configuration table.
- The 'TRION-2402-MULTI-4-D' configuration table shows the following settings:
- | Order | Frequency | Auto Type Bessel | DC | Single-ended |
|-------|-----------|------------------|----|--------------|
| Off | Frequency | Auto Type Bessel | DC | Single-ended |
| Off | Frequency | Auto Type Bessel | DC | Single-ended |
| Off | Frequency | Auto Type Bessel | DC | Single-ended |
| Off | Frequency | Auto Type Bessel | DC | Single-ended |



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CHANNEL LIST – COPY-PASTE CHANNEL SETTINGS

- 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

1 CTRL+C

2 CTRL+V

Channel	Color	Setup	Active	Stored	Scaled Value	Mode	Sample Rate	Range	Scaling	Unit	
LocalNode											
TRIONNet											
TRION-2402-dACC-6-BNC											
AI 1/1 Sim	AI 1/1	TRION-2402-dACC-6-BNC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0000000	AVG	IEPE	20 kHz	-3 V .. 3 V	Scale: 5 Offset: 0	Unit: V
AI 1/2 Sim	AI 1/2	TRION-2402-dACC-6-BNC	<input type="checkbox"/>	<input type="checkbox"/>	0.0000000	AVG	Voltage	20 kHz	-100 V .. 100 V	Scale: 1 Offset: 0	Unit: V
AI 1/3 Sim	AI 1/3	TRION-2402-dACC-6-BNC	<input type="checkbox"/>	<input type="checkbox"/>	-60.075852	AVG	Voltage	20 kHz	-100 V .. 100 V	Scale: 1 Offset: 0	Unit: V
TRION-2402-MULTI-4-D											
AI 2/1 Sim	AI 2/1	TRION-2402-MULTI-4-D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0000000	AVG	Voltage	10 kHz	-10 V .. 10 V	Scale: 1 Offset: 0	Unit: V
AI 2/2 Sim	AI 2/2	TRION-2402-MULTI-4-D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-0.0095212	AVG	Voltage	10 kHz	-10 V .. 10 V	Scale: 1 Offset: 0	Unit: V
AI 2/3 Sim	AI 2/3	TRION-2402-MULTI-4-D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-5.9815996	AVG	Voltage	10 kHz	-10 V .. 10 V	Scale: 1 Offset: 0	Unit: V
AI 2/4 Sim	AI 2/4	TRION-2402-MULTI-4-D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-2.0036799	AVG	Voltage	10 kHz	-10 V .. 10 V	Scale: 1 Offset: 0	Unit: V
CAN 2/1 Sim	CAN 2/1	TRION-2402-MULTI-4-D	<input type="checkbox"/>	<input type="checkbox"/>	used as analog		High Speed				

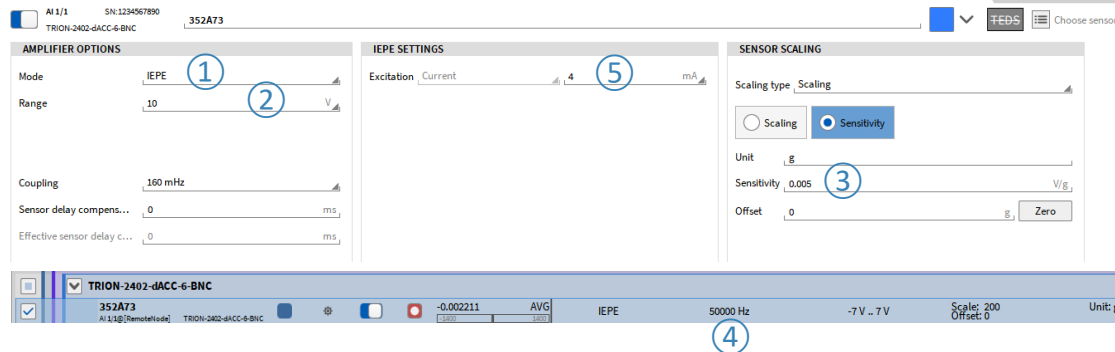


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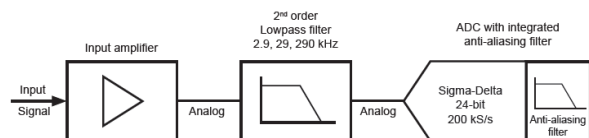
CHANNEL LIST – EXAMPLE PCB ICP 352A71

SPECIFICATIONS

Model Number	352A73
Performance	
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
Environmental	
Overload Limit	±10,000 g pk
Temperature Range (operating)	-65 to +250 °F -54 to +121 °C
Electrical	
Excitation Voltage	18-30 VDC
Constant Current Excitation	2-20 mA ⑤
Physical	
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]
Accessories - Supplied	
Removal Tool	039A26
Petro Wax	080A109



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

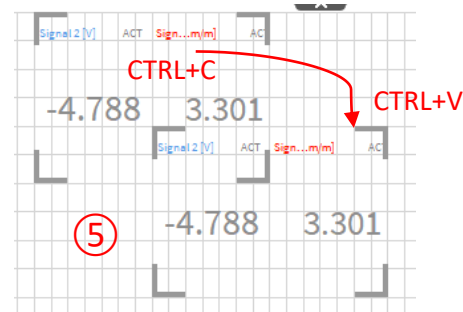
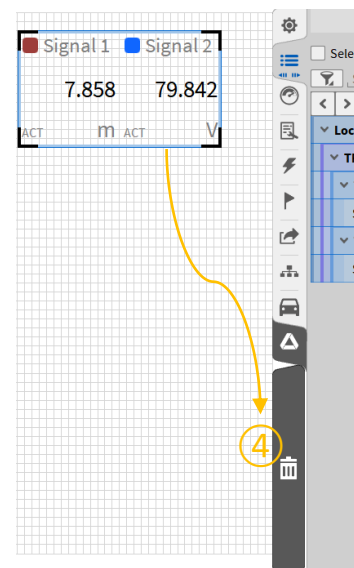
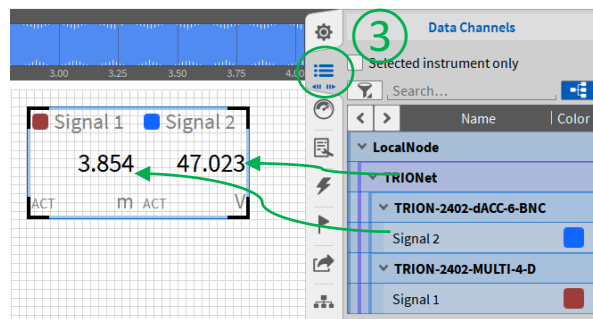
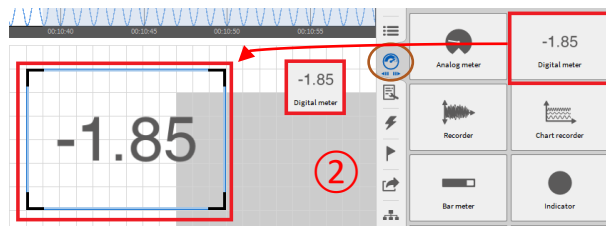
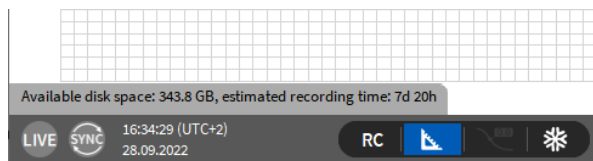


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CONFIGURATION OF MEASUREMENT SCREENS

- 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

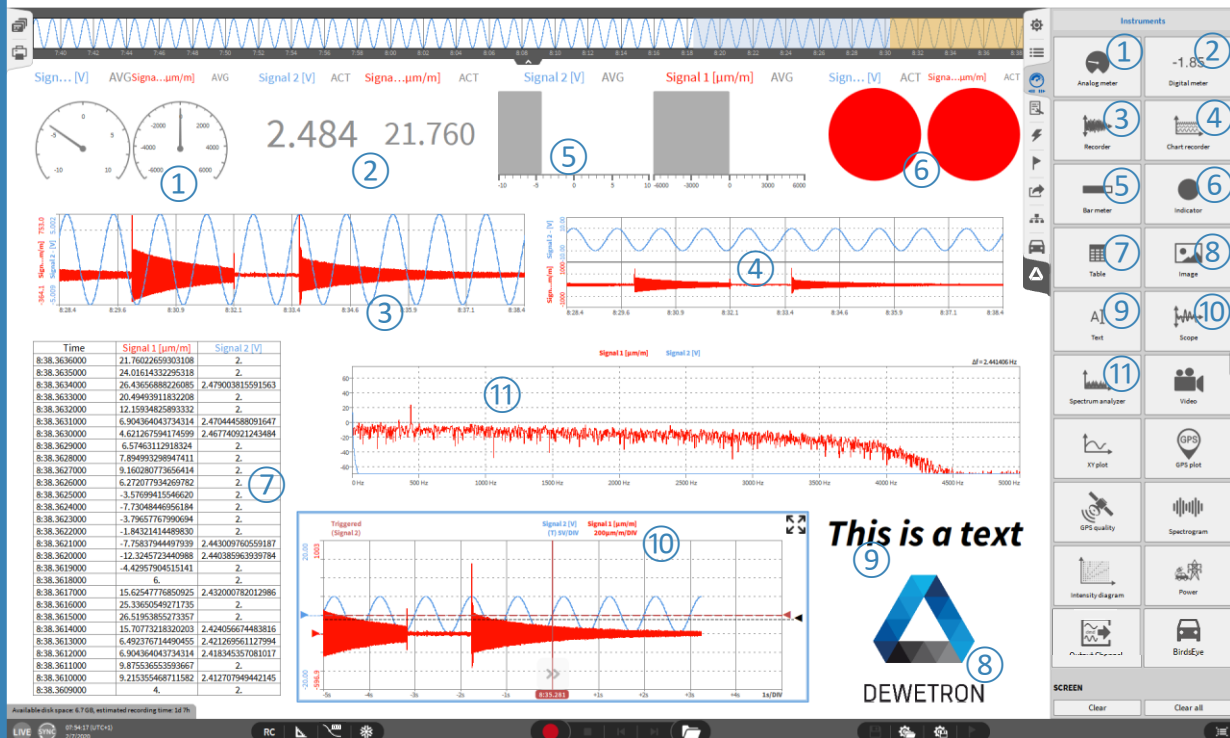




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INSTRUMENTS DISPLAYS - OVERVIEW

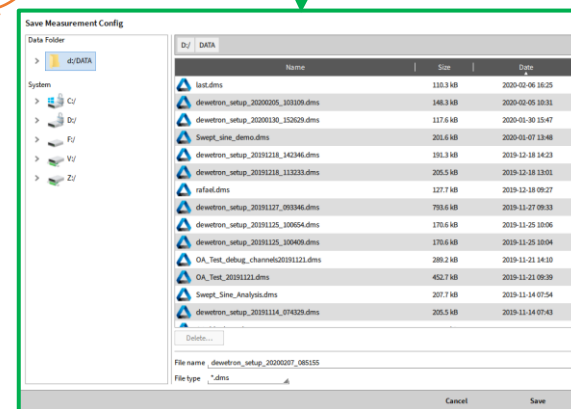
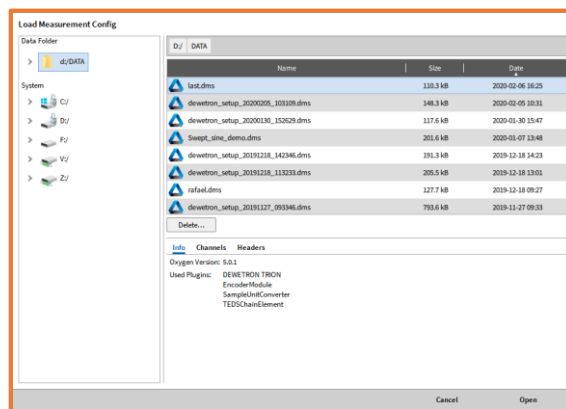


SAVE/LOAD A SETUP FILE (DMS-FILE)



Opens the
Setup-load dialog

Opens the
Setup-save dialog

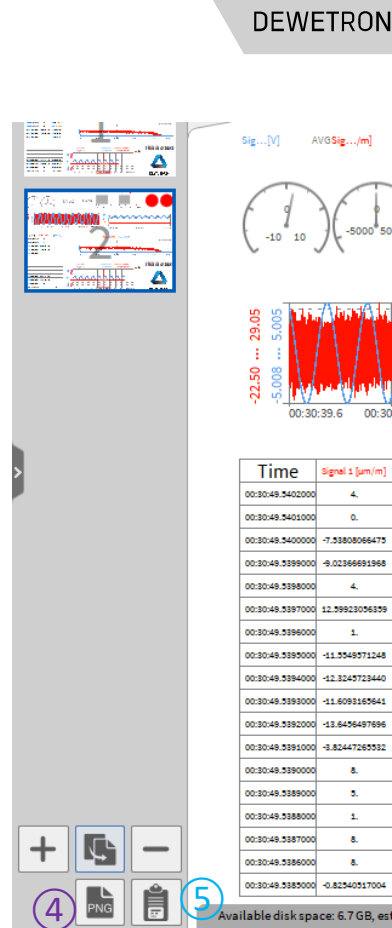
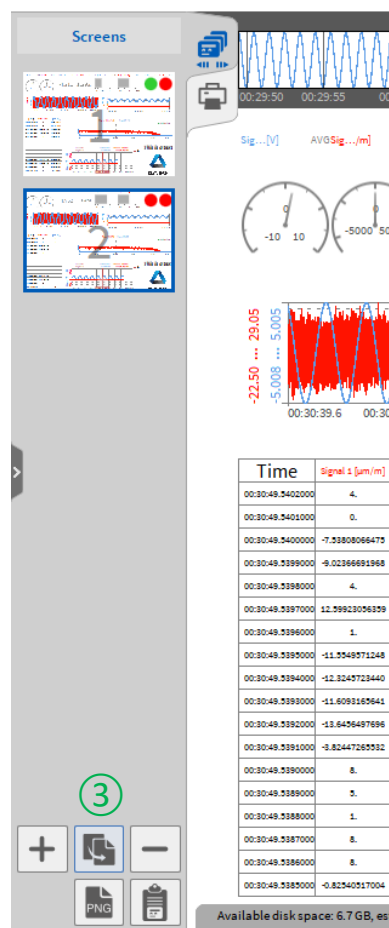
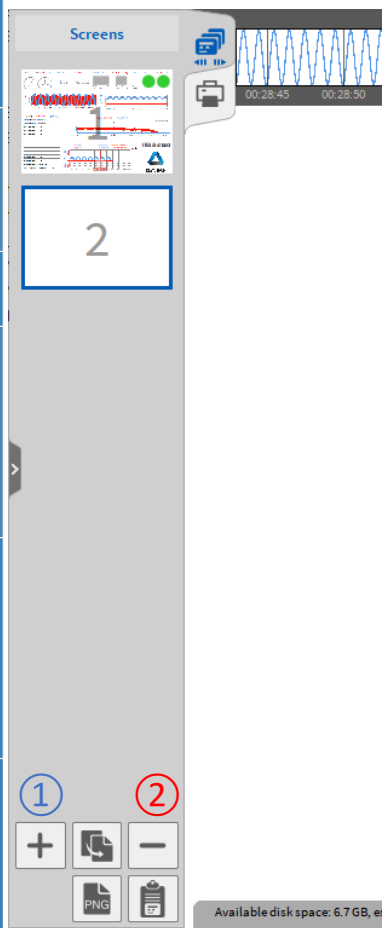




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GENERATING AND ACCESSING MULTIPLE SCREENS

- 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



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	12.59923056359
00:30:49.5396000	1.
00:30:49.5395000	-11.5048971248
00:30:49.5394000	-12.3245723440
00:30:49.5393000	-11.6093165641
00:30:49.5392000	-13.6456497696
00:30:49.5391000	-8.82447265532
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

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	12.59923056359
00:30:49.5396000	1.
00:30:49.5395000	-11.5048971248
00:30:49.5394000	-12.3245723440
00:30:49.5393000	-11.6093165641
00:30:49.5392000	-13.6456497696
00:30:49.5391000	-8.82447265532
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



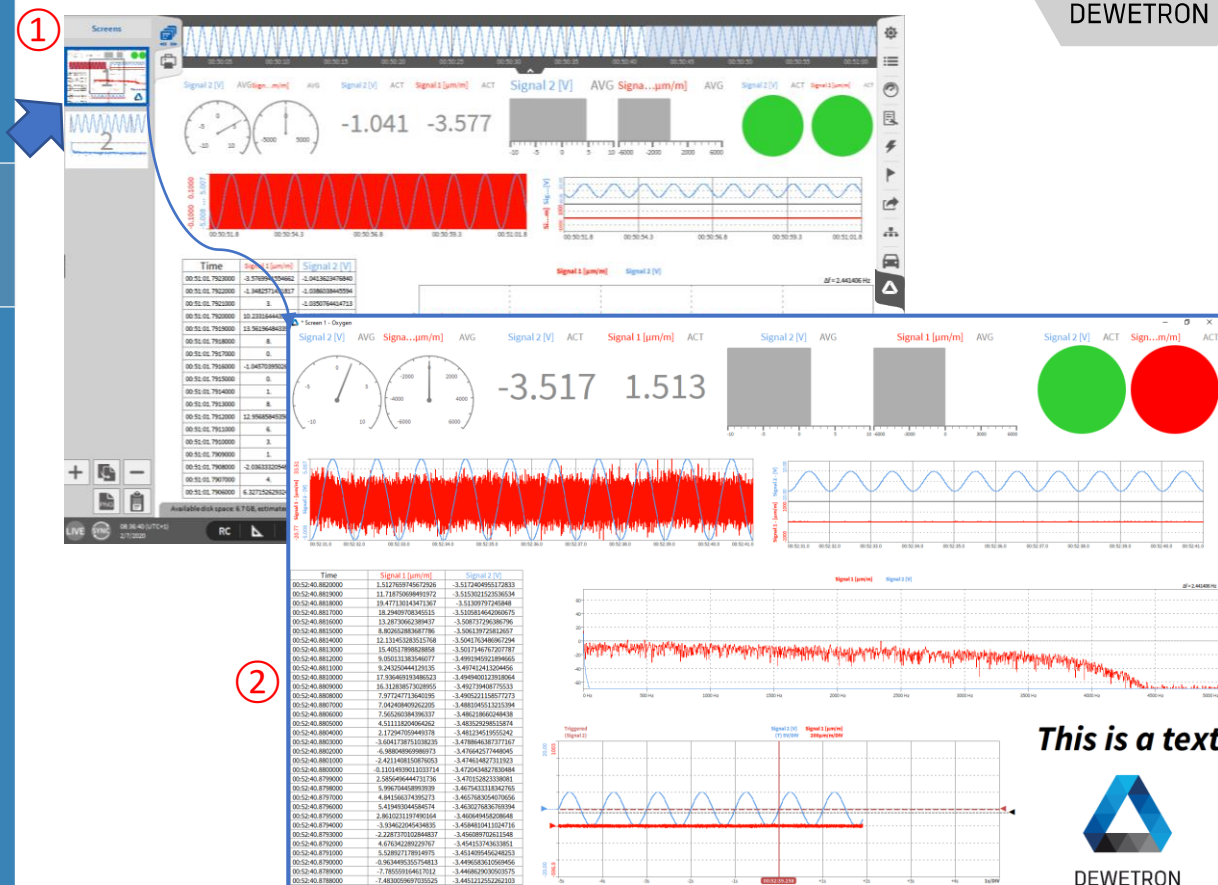
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UNDOCKING SCREENS

- 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

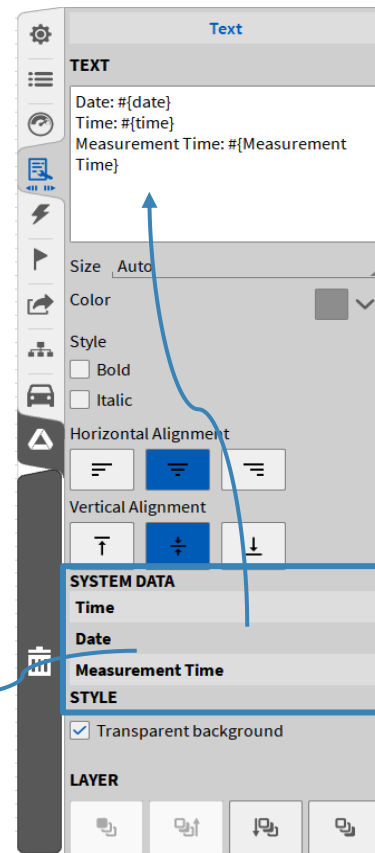
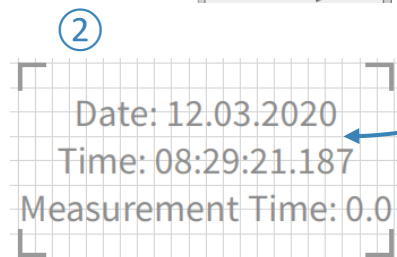
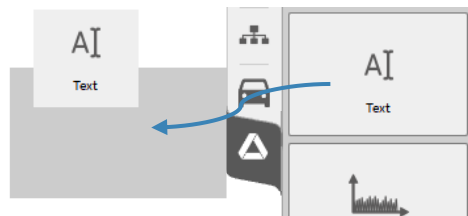
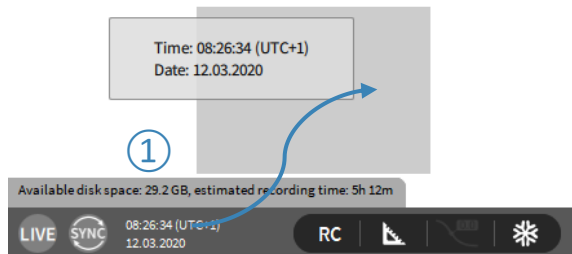




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DISPLAY TIME, DATE AND MEASUREMENT TIME ON THE SCREEN

- 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





DEWETRON

SYSTEM SETTINGS – STORING & FILENAME

- 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

The screenshot shows the 'Oxygen Setup' window with the 'Storing & Filename' tab selected. The left sidebar contains various setup categories. The main area is divided into 'DATA STORING', 'RECORDING FILENAME', and 'System Information' sections. Numbered callouts point to specific settings: 1 points to the 'Data folder' text box, 2 points to the 'Recording filename' text box, 3 points to the 'Export folder' text box, 4 points to the 'Ask for filename before recording start' checkbox, and 5 points to the 'Automatically open DMD after measurement with Oxygen Viewer' checkbox.

Oxygen Setup

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 20220929	Counter, Local 167
Time, UTC 12:16:08	Date, UTC 20220929	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

System Information

Component Versions **4** ☐ Ask for filename before recording start

Errors and Warnings **5** ☐ Automatically open DMD after measurement with Oxygen Viewer

Plugin Overview

License

OXYGEN Features

Developer

QML Sandbox

Quit to OS

Shutdown System...

[Jump to measurement settings](#)



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SYSTEM SETTINGS – STARTUP SETTINGS

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

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](#)

Startup Settings

STARTUP BEHAVIOUR

①

☐ Default

☒ Empty setup

☐ Last setup

☐ Load setup file

Browse...



DEWETRON

SYSTEM SETTINGS – ADVANCED SETTINGS

- | | |
|---|---|
| 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 |

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](#)

Advanced Settings

INSTRUMENTS

☒ DejaView enabled ①

Max. DejaView files to keep (0 = all) 100

FREEZE BUFFER ②

Minimum duration 0 s, Maximum duration 20 s

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)

Synchronize every 10 s after acquisition start.

MISCELLANEOUS SETTINGS

☒ Prevent OXYGEN from shutdown during measurement ④

☐ Suppress all confirmation prompts ⑤

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.



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SYSTEM SETTINGS – HEADER DATA

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

Header Data

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"/>	+

Header Data

Name	Description
Operator	= DEWETRON
Running Speed [rpm]	=

Close

System Settings

DATA STORING

Filename prefix:
m_

Filename preview:
m_yyyyymmdd_hhmmss.dmd

HEADER DATA

Date: 2020 02 14

Operator
DEWETRON

Running Speed [rpm]
3000

Open Data File

Data Folder
D:/DATA

System
C:/
D:/
V:/

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

Delete... New folder...

Info Channels Headers

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

Browse... Cancel Open

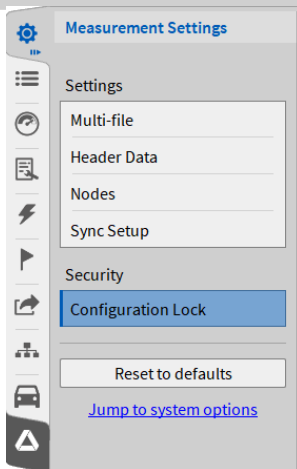
Data files can be selected according to Header data while loading a data file from the OXYGEN file browser



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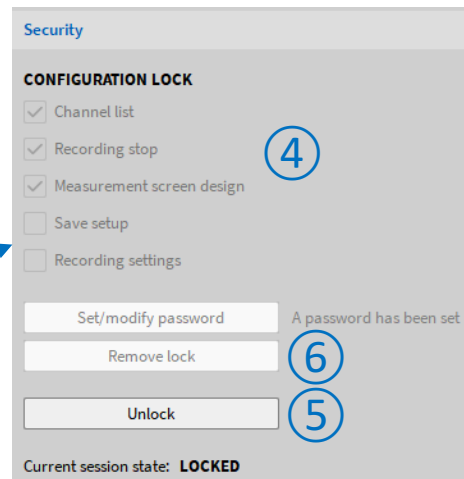
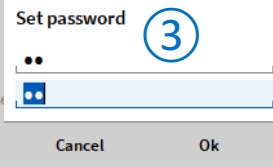
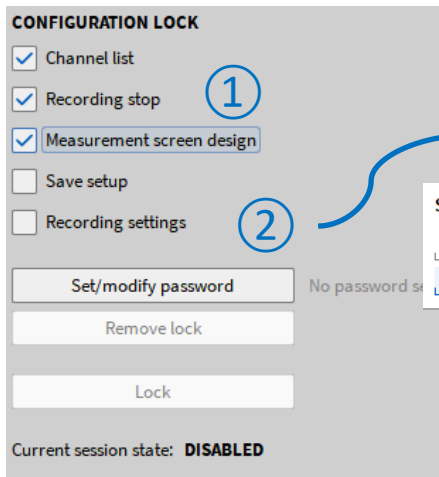
SYSTEM SETTINGS – SETUP SECURITY

- 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





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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

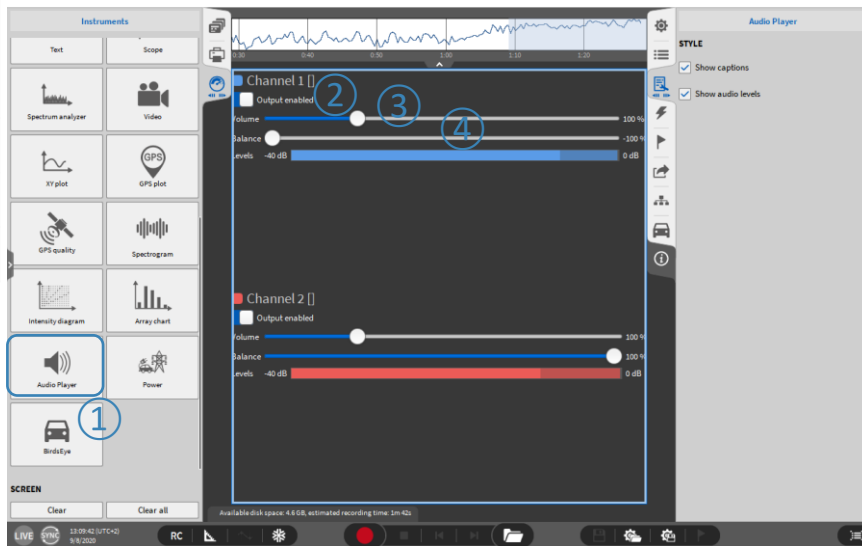
Maximum number of replay channels per instrument is 2.

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).





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TEDS SUPPORT

- 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

AI 3/6 SN:A0120172 Accelerometer AI 3/6 TEDS SN: 912 Type: Accelerometer TEDS Choose sensor << >> X

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

Detailed TEDS info can be displayed

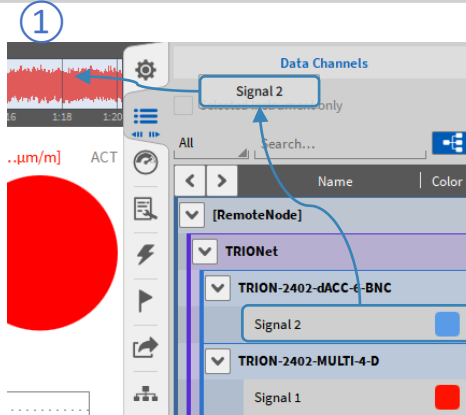
AI 3/3 TEDS SN: 912 Type: Accelerometer TEDS Choose sensor <<

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 ²)	CAL
TF_HP_S	0.081969	Hz	CAL
Direction	x		CAL
Weight	4.600512	g	CAL
ElecSigType	Voltage Sensor		ID

Ok



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

