



DEWETRON

# PRODUCT GUIDE

MEASUREMENT INSTRUMENTS  
& TECHNICAL DATA



**THE MEASURABLE DIFFERENCE.**

# PREFACE

In a world where being different isn't easy why would you shout that you ARE different?  
Probably BECAUSE you are different.  
Every business lays claim to Innovation. Ingenuity. Reliability. We do too.

Without these attributes you don't STAY in business. The DIFFERENCE is what you do with your Innovation, your Ingenuity and your Reliability.

DEWETRON Innovation is inspired by the real needs of real customers, not by the need to be featured on the cover of a tech publication.

DEWETRON Ingenuity is dedicated to making the world a safer place before making a world's greatest list.

DEWETRON Reliability starts and ends with real names, real voices, and real people behind the logo.

Our DEWE2 and DEWE3 series of hardware and OXYGEN Measurement Software measures and analyzes the visible and the invisible beyond normal hearing, seeing, tasting, touching or feeling, in every major industrial market.  
ONE Data Acquisition System and ONE Data Analysis Software customized to the unique and dynamic needs of every customer and every application simply by changing the TRION series signal conditioners.

Effortlessly operate our Power Analyzers using the most advanced engineering technology known to humankind – the fingers. Pinch, Zoom, Swipe and Configure our intuitive OXYGEN Software through the integrated touch screen.

That is evolution.

That is The Measurable Difference.



Klaus Quint  
CEO

A handwritten signature of Klaus Quint in white ink on a dark blue background. The signature is written in a cursive, flowing style.

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# PORTFOLIO & SERVICES

## WHAT DO YOU NEED?

INSTRUMENT SERIES = CHASSIS + MODULES

### DEWE2

& TRION

[up to 2 MS/s]



DEWE2-A4



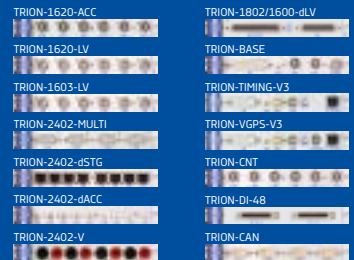
DEWE2-M13



TRIONet

### DEWE2

### TRION



### DEWE3

& TRION3

& TRION

[up to 10 MS/s]



DEWE3-A4



DEWE3-RM16



DEWE3-M4

### DEWE3

### TRION

Same modules as DEWE2 above plus additional TRION3

+ TRION3



## POWER ANALYZER

& TRION3

& TRION

### DEWE2-PA7 & DEWE3-PA8



DEWE2-PA7  
[up to 2 MS/s]



DEWE3-PA8  
[up to 10 MS/s]

### TRION / TRION3

Same modules as DEWE3 above plus additional Power Modules

+ POWER Modules



## CUSTOMER CARE CENTER



CALIBRATION



MAINTENANCE



SYSTEM UPGRADE



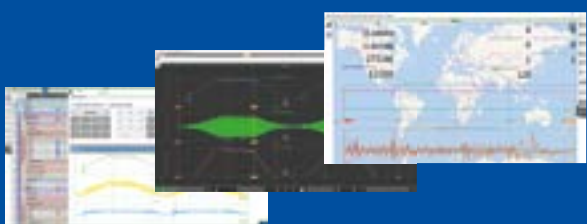
REPAIR



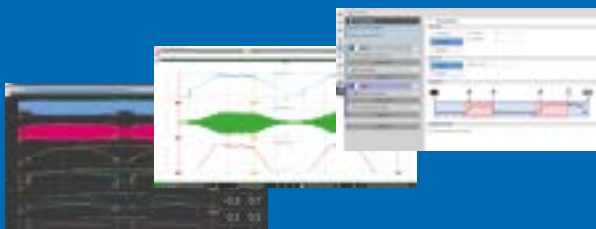
SOFTWARE

# WHICH SIGNALS ARE PROCESSED?

## OXYGEN



## OXYGEN



## OXYGEN + POWER Option



V	I	IEPE	
Charge			006 7
SYNC	GPS		LVDT
	ANALOG OUT	DIG. IN OUT	MSI
CAN	CAN FD	CAN J1939	MSI 600 V
MIL	P Power	SCPI Interface	Flex Ray
ARINC	XCP Slave	Ether CAT Slave	



DEWETRON  
TRAINING  
ACADEMY



WARRANTY  
EXTENSION



FIRST LEVEL  
SUPPORT



SECOND  
LEVEL  
SUPPORT



QUICK  
START

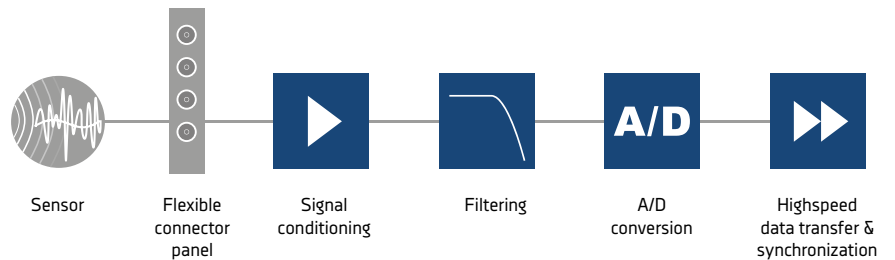


RENTAL  
SERVICE

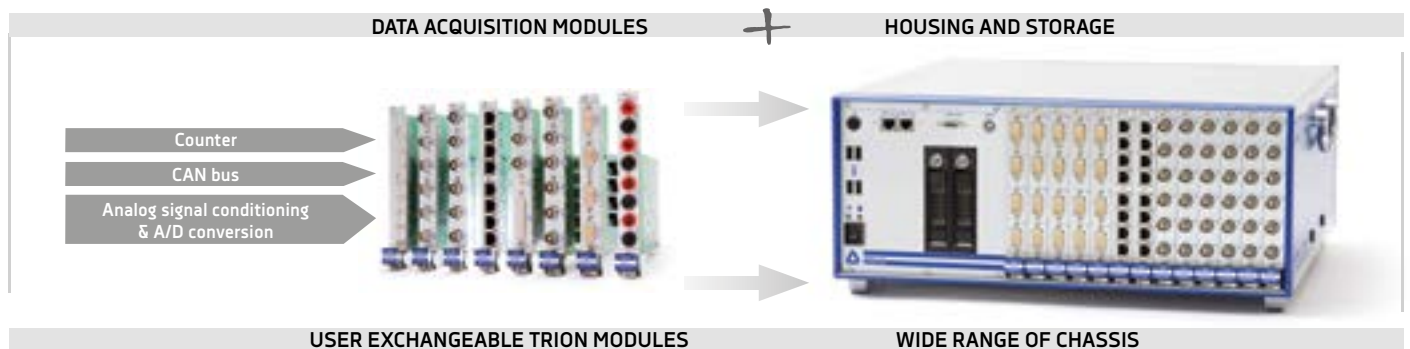
# INSTRUMENT FAMILIES

DEWETRON data acquisition systems are categorized into two families, the DEWE2 (TRION) and DEWE3 (TRION3) express series.

The systems of both series can record vastly different signal sources in perfect sync. The analog input modules are leading technology and guarantee precise and robust results while offering the right input for almost any sensor.



## DEWE2 SERIES WITH TRION MODULES



- > Fully modular: user exchangeable modules for analog, digital, counter, CAN
- > High-precision recording
- > High channel density
- > Rugged chassis

## DEWE3 SERIES WITH TRION AND TRION3 MODULES

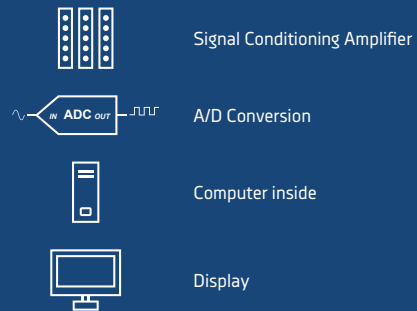


1 GB/s

- > Highspeed modules with up to 10 MS/s per channel
- > 1 GB/s continuous highspeed data storage rate

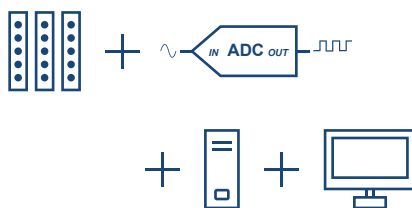


# SYSTEM OVERVIEW



## POWER ANALYZER

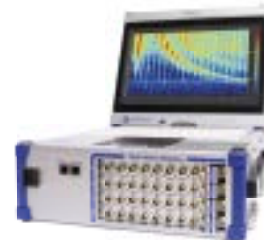
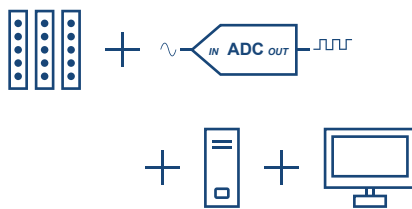
- > 16 power phases
- > 0.03 % measurement error (1 to 1000 Hz)
- > Mixed signal analyzer
- > Multi-touch screen (up to 11.6")
- > Integrated (redundant) current transducer supply



DEWE3-PA8

## ALL-IN-ONE

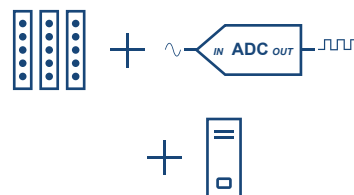
- > Built-in display
- > Compact and flexible configuration
- > Powerful PC inside for fast online displays and analysis
- > Convenient for mobile applications
- > Battery power option



DEWE3-A4

## MAINFRAME

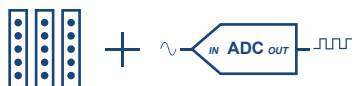
- > Powerful PC inside for fast online displays and analysis
- > Can be used with external display
- > Very popular for applications where the instrument is installed in a poorly accessible place for the user



DEWE3-RM16

## FRONT-END

- > Used with an external computer
- > Fully synchronized expansion for All-in-one or Mainframe instruments
- > Multiple units can be daisy-chained
- > Connected via USB3.0 or GBit-Ethernet



USB or Ethernet

TRIONet

## SIGNAL CONDITIONING

- > Stand-alone signal conditioning
- > Front-ends for existing recorders, A/D boards ...



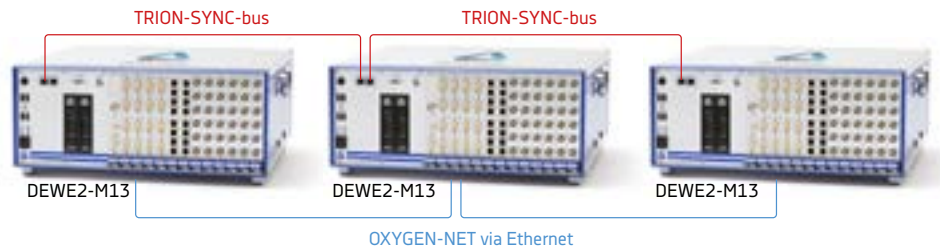
DEWE-30-16

# UNLIMITED MEASUREMENTS

## MORE CHANNELS

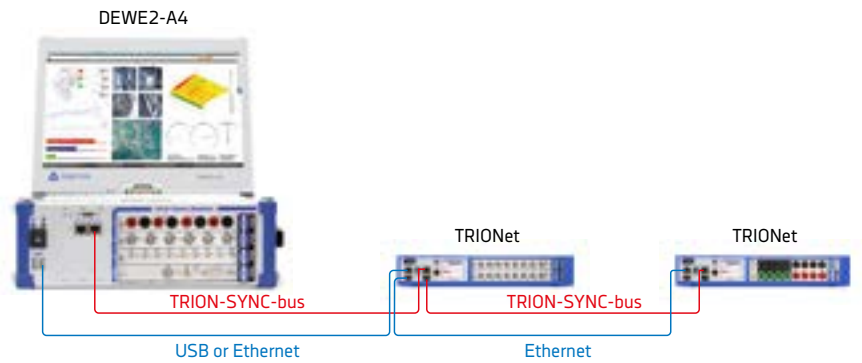
### OXYGEN-NET EXPANSION

The software option OXYGEN-NET: Easy-to-use synchronized measurement for hundreds of input channels from 10 S/s to 10 MS/s per channel.



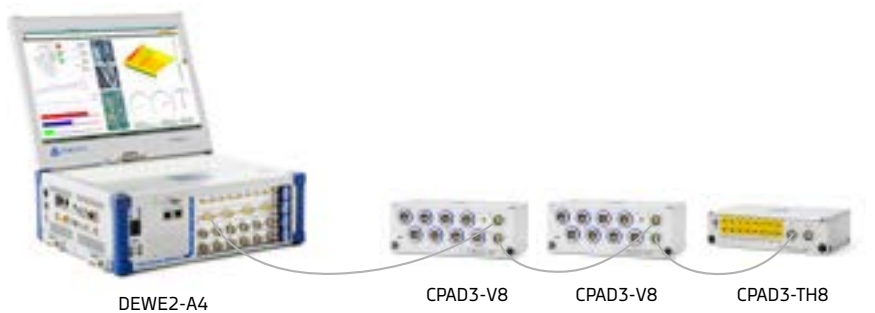
### FRONT-END EXPANSION

Add one or more front-end chassis for highspeed expansion. Up to 100 m between units possible.



### STATIC EXPANSION UP TO 100 HZ

Add CPAD2 or CPAD3 modules with CAN interface or EPAD2 modules with RS485 interface

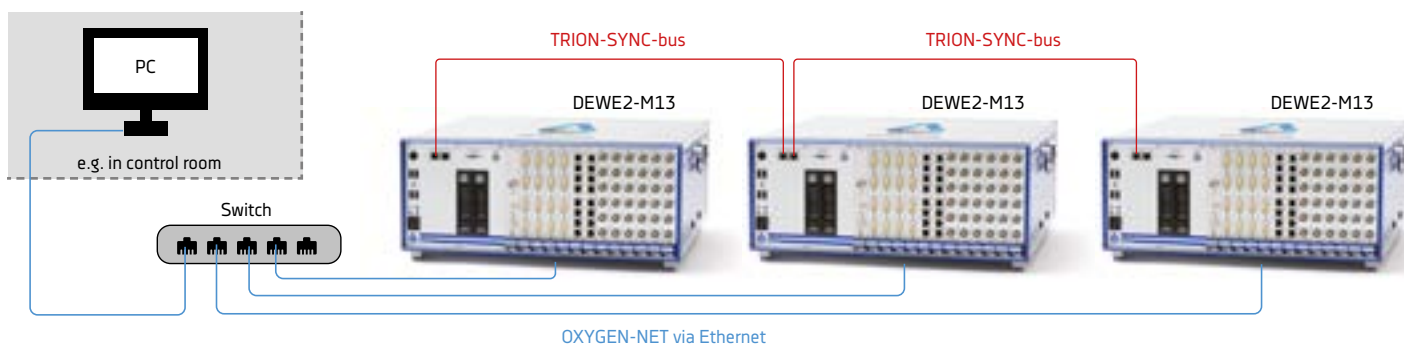




# NETWORKED SYSTEMS

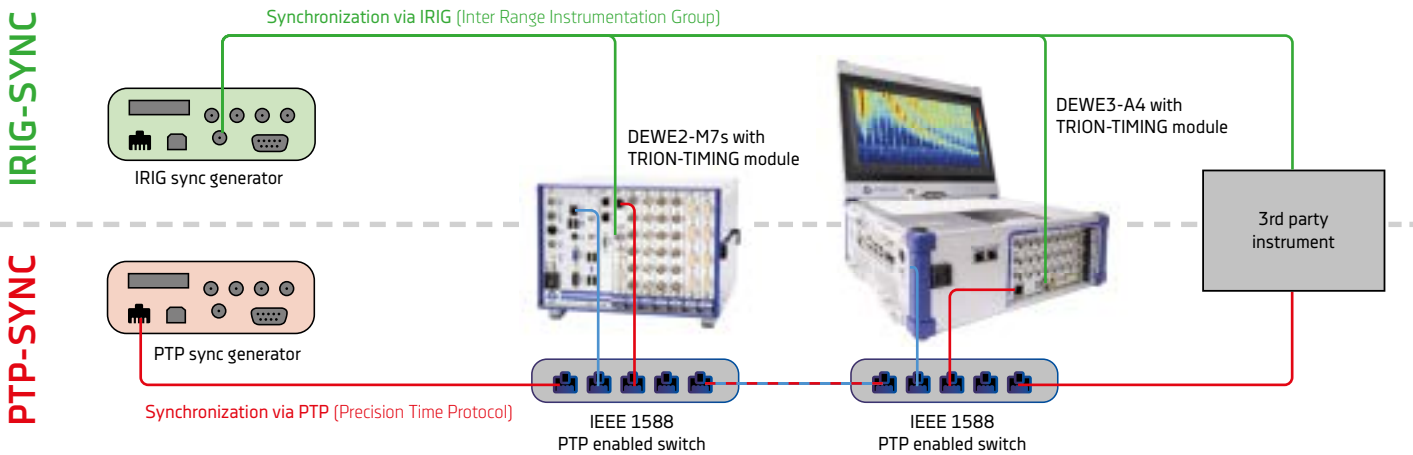
## TRION-SYNC

Multiple DEWE2-M13, distributed high channel-count system, featuring OXYGEN with OXYGEN-NET software option



## PTP-SYNC / IRIG-SYNC

Various instruments from DEWETRON or 3rd party instruments synchronized via PTP or IRIG.  
Data transmission via Ethernet and local data storage possible.



## GPS-SYNC

Two or more instruments synchronized via GPS

Data transmission via Ethernet and local data storage possible.





# TRION / TRION3

Voltage (1000 V)	Potentiometer	Current (shunt required)	Current (with shunt inside)	RTD	CAN	GPS
IEPE® (vibration)	Absolute Time (PTP, IRIG, GPS)	Modular Smart Interfaces (e.g. for thermocouple)	Bridge (strain gauge)	Counter Inputs	Digital I/O	

ANALOG MODULES		CHANNELS	SAMPLE RATE PER CHANNEL	RESOLUTION	ISOLATION	CONNECTOR TYPES
TRION3-1850-MULTI <sup>2)</sup> TRION3-1820-MULTI <sup>2)</sup> TRION-1820-MULTI		4 or 8	1850: 5 MS/s 1820: 2 MS/s	24-bit >2MS/s: 18-bit	yes	4 DSUB or 8 LEMO 0B
TRION-2402-MULTI		4 or 8	200 kS/s	24-bit	yes	4 DSUB or 8 LEMO 0B
TRION-1620-ACC		6	2 MS/s	24-bit >1 MS/s: 16-bit	yes	6 BNC or LEMO 1B
TRION-1620-LV		6	2 MS/s	24-bit >1 MS/s: 16-bit	yes	6 BNC or LEMO 1B
TRION-2402-V <sup>2)</sup>		4 or 8	200 kS/s	24-bit	yes	Safety banana
TRION-1810-HV <sup>2)</sup>		4 to 8	1 MS/s	18-bit	yes	Safety banana, CAT III 1000 V <sup>3)</sup>
TRION3-1810-SUB-8		8	1 MS/s	20-bit	yes	Safety banana
TRION-1603-LV		6	250 kS/s	16-bit	yes	6 BNC or LEMO 1B
TRION-2402-dSTG <sup>2)</sup>		6 or 8	200 kS/s	24-bit	-	LEMO 1B, 8 LEMO 0B, 8 RJ45, 8 DSUB
TRION-2402-dACC		6 or 8	200 kS/s	24-bit	-	6 BNC or 8 SMB
TRION-1802-dLV		16 or 32	200 kS/s 100 kS/s	18-bit 24-bit	-	DSUB
TRION-1600-dLV		16 or 32	20 kS/s	16-bit	-	DSUB

DIGITAL MODULES		CHANNELS	SAMPLE RATE PER CHANNEL	RESOLUTION	ISOLATION	FEATURES
TRION-CNT		6	2 MS/s	80 MHz	yes	6 channel advanced counter
TRION-DI-48		48	2 MS/s	500 nsec	yes	48 highspeed digital IN
TRION-BASE		-	2 MS/s	80 MHz	-	Basic IO card with simple IRIG sync and 2 counter
TRION-VGPS-V3		-	2 MS/s	0.01 km/h <10 cm	-	100 Hz GNSS receiver for automotive applications
TRION-TIMING-V3		-	2 MS/s	12.5 nsec	-	Applies precision absolute time to measured data
TRION-CAN		2 or 4	1 MBit	-	yes	DSUB
TRION-ARINC		4 or 16			-	Decoding of ARINC 429 signals, export of decoded signals
TRION-MIL1533		1 or 4			-	Decoding of MIL-STD 1553 signals, export of decoded signals
TRION-EtherCAT-1-SLAVE		100	500 S/s	-	-	Measurement data output

POWER MODULES		CHANNELS	SAMPLE RATE PER CHANNEL	RESOLUTION	ISOLATION	CONNECTOR TYPES
TRION3-1810M-POWER <sup>2) 2)</sup>		8 (4 U / 4 I)	10 MS/s	18-bit	yes	Safety banana, DSUB
TRION-1820-POWER <sup>2)</sup>		8 (4 U / 4 I)	2 MS/s	18-bit	yes	Safety banana, DSUB

ANALOG OUTPUT MODULES		CHANNELS	SAMPLE RATE PER CHANNEL	RESOLUTION	ISOLATION	CONNECTOR TYPES
TRION3-1820-MULTI-AOUT <sup>2)</sup>		IN 8 OUT 8	IN 2 MS/s OUT 2.5 MS/s	IN 24-bit OUT 32-bit	IN yes OUT yes	IN Lemo 0B OUT DSUB, BNC

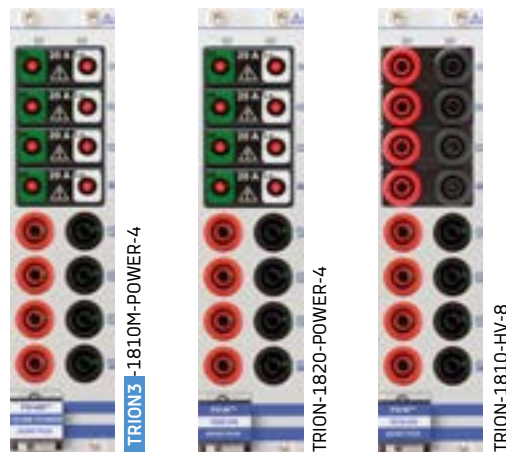
<sup>1)</sup> Requires DEWE3 express chassis

<sup>2)</sup> Some versions of this module occupy 2 TRION slots

<sup>3)</sup> CAT III 1000 V only applicable for 1000 V inputs; SUB-600V has CAT II 600 V / CAT III 300 V

# POWER MODULES

**TRION3-1810M-POWER-4**  
**TRION-1820-POWER-4**  
**TRION-1810-HV-8**



Choose between two types of power modules or one high-voltage module with 4 slots for flexible voltage inputs, each with 18-bit resolution.

The 4 slots of each module can be equipped with different direct current measurement modules or voltage modules to connect almost any kind of current or voltage transducer.

All components are user-exchangeable.

All three modules offer a different sampling rate:

- > **TRION3-1810M-POWER-4**  
up to 10 MS/s/ch
- > **TRION-1820-POWER-4**  
2 MS/s/ch
- > **TRION-1810-HV-8**  
1 MS/s/ch

		RANGE	SAFETY	BANDWIDTH	CONNECTOR	USER EXCHANGEABLE	
	Voltage input U1, U2, U3, U4	1000 V (±2000 V <sub>PEAK</sub> )	CAT IV 600 V / CAT III 1000 V	5 MHz	Safety banana	-	
VOLTAGE	1 V module	1 V <sub>RMS</sub> (±2 V <sub>PEAK</sub> )	Not isolated. Depending on connected clamp	5 MHz	DSUB-9 socket	Yes	
	5 V module	5 V <sub>RMS</sub> (±10 V <sub>PEAK</sub> )		5 MHz	DSUB-9 socket		
	Clamp input module	5 V (±10 V <sub>PEAK</sub> )		150 kHz	DSUB-9 socket		
	600 V module	600 V <sub>RMS</sub> (±1500 V <sub>PEAK</sub> )	CAT II 600 V, isolated	300 kHz	Safety banana		
	5 V module	5 V <sub>RMS</sub> (±10 V <sub>PEAK</sub> )	300 kHz	Safety banana			
CURRENT*	20 A module	20 A (±40 A <sub>PEAK</sub> )	CAT II 600 V, unfused	300 kHz	Safety banana (male)	Yes	
	2 A module	2 A (±4 A <sub>PEAK</sub> )					
	1 A module	1 A (±2 A <sub>PEAK</sub> )					
	0.2 A module	0.2 A (±0.4 A <sub>PEAK</sub> )					

\* Current inputs are not supported by TRION-1810-HV

## EXAMPLES



TRIONNet



DEWE2-A4



DEWE2-PA7

# POWER ANALYZER

- > Modular precision Mixed Signal Power Analyzer
- > Up to 16 power phases (U, I @ channel) - expandable
- > Number of power groups user definable
- > Wiring of power groups fits all applications: 1-phase, 2-phase, 3-phase, 6-phase, polyphase up to 9 phases
- > 0.03 % measurement error



	DEWE2-PA7	DEWE3-PA8
Slots for TRION/ TRION3 modules	7 TRION (up to 12 phases)	8 TRION / TRION3 (up to 16 phases)
Highspeed channel expansion	Add TRIONet or OXYGEN-NET	
Lowspeed channel expansion 100 Hz	CPAD3 via TRION-CAN	
Quasi-static channel expansion	EPAD2 or CPAD2 via TRION-CAN	
Data storage	1 TB Solid State Disk dedicated for data storage	
Optional data storage	1 TB hard disk dedicated for data storage 120 GB SSD for operating system and application software	(SSD-PCIe-1T-2T) Upgrade from 1 TB to 2 TB industrial grade, PCIe attached Solid State Disk
Gapless storing rate	Typ. 90 MB/s	Typ. 1 GB/s
Display	9" multi-touch wide-screen	11.6" multi-touch wide-screen full HD

## POWER SUPPLY

Input voltage (max.)	90 to 264 V <sub>Ac</sub>	
Sensor power supply	8 x (±15 V / +9 V)	
Integrated current transducer supply	Yes	Yes, with redundant supply

## DIMENSIONS

Dimensions (W x D x H) without handle/feet	441 x 427 x 177 mm (4 u plus 1 u for cooling in cabinet required) (17.4 x 16.8 x 7 in.)	441 x 435 x 222 mm (5 u) (17.4 x 17.1 x 8.7 in.)
Weight without modules and batteries	Typ. 13 kg (28.6 lb.)	Typ. 14 kg (30.9 lb.)



# RACK-MOUNT MAINFRAMES

## FOR TRION3 MODULES

- > Rack-mount or benchtop data acquisition mainframe
- > Silent cooling, easy to maintain fan slot
- > Gapless storage of raw data up to 1 GB/s



	DEWE3-RM4	DEWE3-RM8	DEWE3-RM12	DEWE3-RM16
Slots for TRION/ TRION3 modules	4 TRION / TRION3	8 TRION / TRION3	12 TRION / TRION3	16 TRION / TRION3
Highspeed channel expansion	Add TRIONet or OXYGEN-NET			
Low-speed channel expansion 100 Hz	CPAD3 via TRION-CAN			
Quasi-static channel expansion	EPAD2 or CPAD2 via TRION-CAN			
Data storage	1 TB highspeed PCIe Solid State Disk dedicated for data storage (removable)			
Optional data storage	(SSD-PCIe-1T-2T) Upgrade from 1 TB to 2 TB industrial grade, PCIe attached Solid State Disk			
Gap free storing rate	Typ. 1 GB/s			
<b>POWER SUPPLY</b>				
Input voltage (max.)	90 to 264 V <sub>AC</sub>			
<b>DIMENSIONS</b>				
Dimensions (W x D x H) without handle/feet	442 x 435 x 222 mm (5 u) (17.4 x 17.1 x 8.7 in.)			
Weight without modules	Typ. 15.8 kg (34.8 lb.)			



Exchangeable fan slot



19" mounting kit available

# MAINFRAMES

## FOR TRION / **TRION3** MODULES

- > Compact and flexible configuration
- > Powerful PC inside for fast online displays and analysis
- > Convenient for mobile applications



	DEWE2-M4 / DEWE3-M4	DEWE2-M7s
Slots for TRION / <b>TRION3</b> modules	DEWE2-M4: 4 TRION DEWE3-M4: 4 TRION / <b>TRION3</b>	7 TRION
Highspeed channel expansion	Add TRIONet or OXYGEN-NET	
Low-speed channel expansion 100 Hz	CPAD3 via TRION-CAN	
Quasi-static channel expansion	EPAD2 or CPAD2 via TRION-CAN	
Data storage	256 GB removable Solid State Disk	256 GB Solid State Disk
Optional data storage	Up to 1 TB	
Gap free storing rate	DEWE2-M4: typ. 90 MB/s DEWE3-M4: typ. 400 MB/s	Typ. 90 MB/s

### POWER SUPPLY

Standard (max.)	10 to 36 V <sub>DC</sub> isolated; incl. external AC power supply
Option 1	(DW2-PS-DC-Buffer) Internal buffer battery for ~ 5 min. operation
Option 2	(DW2-UPS-250-DC) Ext. battery pack, 3 battery slots

### DIMENSIONS

Dimensions (W x D x H) without handle/feet	318 x 253 x 108 mm (12.5 x 10 x 4.3 in.)	258 x 230 x 177 mm (4 u) (10.2 x 9.1 x 7 in.)
Weight without modules and batteries <sup>3)</sup>	Typ. 3.9 kg (8.6 lb.)	Typ. 4.9 kg (10.8 lb.)

<sup>3)</sup> Weight of one battery: 540 g (1.20 lb.)



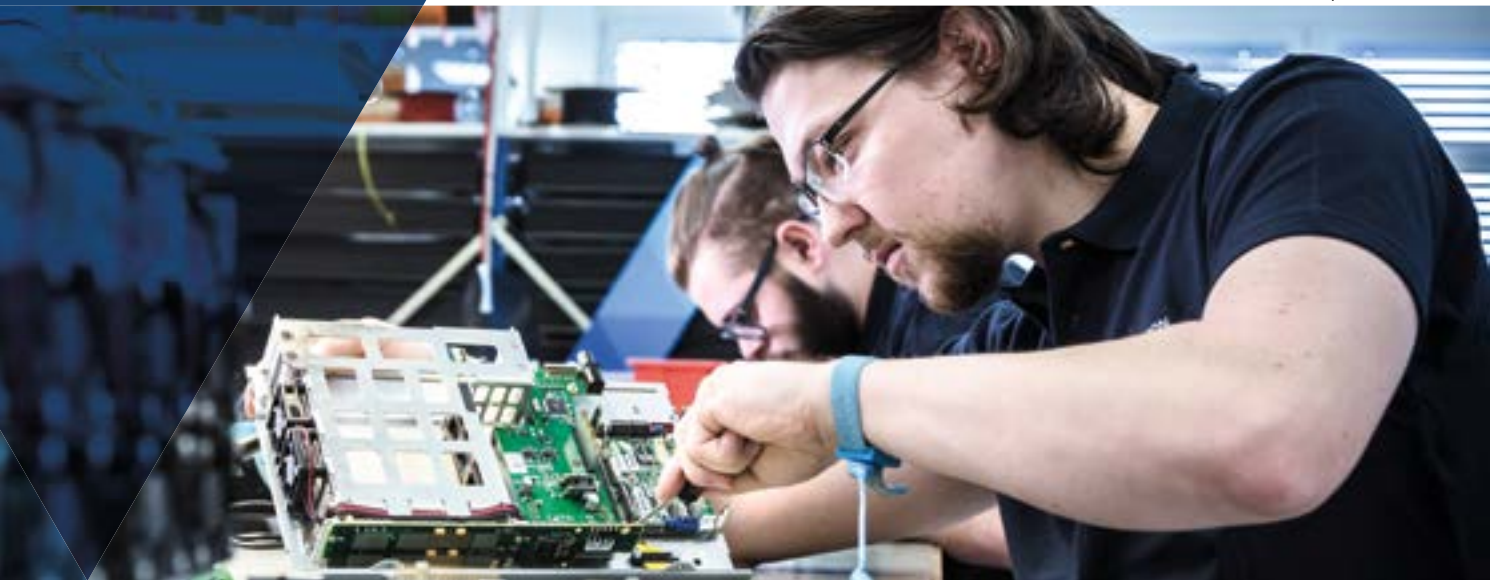
CAM-SPLIT-BOX



BAT-CHARGER-4  
Desktop battery charger for 4 batteries



MOB-DISP-12  
External display



DEWE2-M13s	DEWE2-M7 / DEWE2-M13	DEWE2-M18
13 TRION	7 / 13 TRION	18 TRION
Add TRIONet or OXYGEN-NET		
CPAD3 via TRION-CAN		
EPAD2 or CPAD2 via TRION-CAN		CPAD2 via TRION-CAN
256 GB Solid State Disk	120 GB Solid State Disk 1 TB Solid State Disk (optional plus two 3.5" bays)	256 GB Solid State Disk
Up to 1 TB	Up to 4 TB	Up to 1 TB
Typ. 90 MB/s	Typ. 90 MB/s	Typ. 90 MB/s
10 to 36 V <sub>DC</sub> isolated; incl. external AC power supply	90 to 264 V <sub>AC</sub>	90 to 264 V <sub>AC</sub>
Internal buffer battery for ~ 2 min. operation	Redundant AC power supply	n/a
Battery powered, 4 battery slots for ~2 hours operation	n/a	n/a
441 x 230 x 177 mm (4 u) (17.4 x 9.1 x 7 in.)		441 x 427 x 177 mm (4 u) (17.4 x 16.8 x 7 in.)
Typ. 8.3 kg (18 lb.)		Typ. 13 kg (28.6 lb.)



DEWE2-M13s with 4 battery slots



DEWE2-M13 with 2 hard disks  
(2x option DW2-M13-BAY35-SATA)



19" mounting kit available

# ALL-IN-ONE

## FOR TRION / **TRION3** MODULES

- > Built-in display
- > Compact and flexible configuration
- > Powerful PC inside for fast online displays and analysis
- > Convenient for mobile applications



	DEWE2-A4 / DEWE3-A4	DEWE2-A4L	DEWE2-A7 / DEWE2-A13
Slots for TRION/ <b>TRION3</b> modules	DEWE2-A4: 4 TRION DEWE3-A4: 4 TRION / <b>TRION3</b>	4 TRION	7 / 13 TRION
Highspeed channel expansion	Add TRIONet or OXYGEN-NET		
Lowspeed channel expansion 100 Hz	CPAD3 via TRION-CAN		
Quasi-static channel expansion	EPAD2 or CPAD2		
Data storage	256 GB removable Solid State Disk	1 TB hard disk dedicated for data storage 120 GB SSD for operating system and application software	1 TB hard disk dedicated for data storage 120 GB SSD for operating system and application software
Optional data storage	Up to 1 TB SSD		
Gap free storing rate	DEWE2-A4: max. 90 MB/s DEWE3-A4: max. 400 MB/s	max. 90 MB/s	max. 90 MB/s
Display	DEWE2-A4: 13" wide-screen display DEWE3-A4: 13" wide-screen display, full HD	15.4" multi-touch wide-screen display full HD	17" wide-screen display full HD

### POWER SUPPLY

Input voltage (max.)	10 to 36 V <sub>DC</sub> isolated incl. external AC power supply	90 to 264 V <sub>AC</sub>	90 to 264 V <sub>AC</sub>
Option 1	Internal buffer battery for ~ 5 min. operation	-	DC power supply (DW2-PS-DC-300) 10 to 36 V <sub>DC</sub>
Option 2	(DW2-UPS-250-DC) Ext. battery pack, 3 battery slots for ~2 hours operation	-	(DW2-PS-BAT) Battery powered, 4 battery slots for ~2 hours operation

### DIMENSIONS

Dimensions (W x D x H) without handle/feet	318 x 253 x 128 mm (12.5 x 10 x 5 in.)	462 x 320 x 135 mm (18.2 x 12.6 x 5.3 in.)	450 x 246 x 303 mm (17.7 x 9.7 x 11.9 in.)
Weight without modules and batteries <sup>1)</sup>	Typ. 5.9 kg (13 lb.)	Typ. 8.5 kg (18.7 lb.)	Typ. 15 kg (33 lb.)
Weight of one battery: 540 g (1.20 lb.)			



DE-POWERBOX-11  
DC power distribution box



DW2-UPS-250-DC,  
250 W UPS with 3 battery slots



# FRONT-END

## WITH USB & ETHERNET INTERFACE

- > Up to 100 m distance between the TRIONet systems
- > Gigabit LAN and USB3
- > Distributable / stackable
- > Touch display



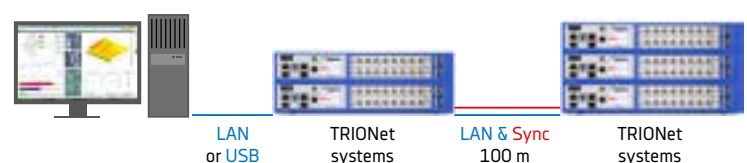
	TRIONet
Slots for TRION modules <sup>1)</sup>	2 TRION
<b>LINK TO DAQP/HSI SERIES SIGNAL CONDITIONING MODULES</b>	
Low-speed channel expansion 100 Hz	CPAD3 via TRION-CAN
Quasi-static channel expansion	CPAD2 via TRION-CAN or TRION-MULTI (no EPAD)
LAN	2 x 1000BASE-TX Gigabit Ethernet
LAN configuration	DHCP or Static IP
USB	USB 2.0; USB 3.0
Synchronization	TRION-SYNC-Bus up to 100 m between nodes
System bandwidth	90 MB/s with one connected TRIONet (up to 50 MB/s with more than one)
Display	Status display with touch-screen
Cooling	2 temperature controlled ultra silent fans
<b>HOST SYSTEM REQUIREMENTS</b>	
Supported operating systems	Windows 7 & 10; 64-bit
Supported interfaces	USB 3.0; USB 2.0; 1000BASE-TX Gigabit Ethernet
<b>POWER SUPPLY</b>	
Isolated power supply (max.)	10 to 32 V <sub>DC</sub> (9 to 36 V <sub>DC</sub> )
Power consumption	Without modules 15 W, totally equipped max. 55 W
External power supply (included)	100 to 240 V ~50 to 60 Hz / 65 W
Option	(DW2-UPS-250-DC) Ext. battery pack, 3 battery slots for ~4 hours operation
<b>DIMENSIONS</b>	
Dimensions (W x D x H)	320 x 205 x 55 mm (12.6 x 8 x 2.2 in.)
Weight without modules	Typ. 1.9 kg (4.2 lb.)
<b>ENVIRONMENTAL SPECIFICATIONS</b>	
Operating temperature	-20 °C to +60 °C (with pre-warmed unit)
Storage temperature	-20 to +70 °C
Humidity	10 to 90 % non cond., 5 to 95 % rel. humidity
Max. altitude	3000 m (9840 ft)
Sine vibration (EN 60068-2-6)	20 m/s <sup>2</sup>
Shock (EN 60028-2-27)	30 g
Random vibration (EN 60721-3-2)	Class 2M3

<sup>1)</sup> Unsupported module: TRION-ARINC, TRION-MIL1553, TRION-EtherCAT-1-Slave

## LOW CHANNEL-COUNT APPLICATION









## DISTRIBUTED APPLICATION



# STATIC MEASUREMENT MODULES

- > -40...+85 °C operating temperature (option)
- > Rugged, stackable and multiple mounting options
- > Fully isolated: channel to channel and channel to bus, power and chassis
- > EPAD: RS-485 interface - optional converter module to USB
- > CPAD: CAN interface

MODULE	CHANNELS	INPUT RANGES	SAMPLE RATE PER CHANNEL	ISOLATION
<b>CPAD3-TH8-x</b> 	8 thermocouple inputs	Types K, T, J, E, R, S, B, N, C, U	100 S/s	1500 V <sub>DC</sub>
<b>EPAD2/CPAD2-TH8-x</b> 	8 thermocouple inputs	Types K, T, J, E, R, S, B, N, C, U	10 S/s	350 V <sub>DC</sub>
<b>CPAD3-V8</b> 	8 isolated voltage inputs	Max. ±50 V	100 S/s	1500 V <sub>DC</sub>
<b>EPAD2/CPAD2-V8</b> 	8 isolated voltage inputs	Max. ±50 V	10 S/s	350 V <sub>DC</sub>
<b>EPAD2/CPAD2-RTD8</b> 	8 isolated Resistance Temperature Detector inputs	RTD: Pt100, Pt200, Pt500, Pt1000, Pt2000 Resistance: 0 - 999.99 Ohm	10 S/s	350 V <sub>DC</sub>
<b>EPAD2/CPAD2-LA8</b> 	8 isolated current inputs	Max. ±30 mA	10 S/s	350 V <sub>DC</sub>
<b>EPAD2-A04</b> 	4 voltage or current outputs	Max. ±10 V or max. 20 mA	10 S/s	350 V <sub>DC</sub>

CPAD = CAN-bus interface; EPAD = RS-485 interface












Frozen EPAD Modules - still operating at -40 °C

# MODULAR SMART INTERFACES



- > Expand the functionality of TRION inputs
- > Automatically detected and set up
- > Supported on TRION-x-MULTI and TRION-1802/TRION-1600 with TRION-X-dLV-CB16-D9 connector box

MODULAR SMART INTERFACES	INPUT	SENSOR EXCITATION	BANDWIDTH (MAX.) CONSIDER LIMIT OF USED TRION MODULE	ACCURACY (TYP.)	SENSOR CONNECTION
MSI2-250R-20mA 	4 to 20 mA sensors	5 to 48 V AUX PWR	DC to 100 kHz	±0.1 %	Miniature spring terminals
MSI2-STG 	Bridge type sensors Full-bridge, half-bridge, quarter bridge 120 Ω and 350 Ω	5 V and 10 V	100 kHz	±0.1 %	Miniature spring terminals
MSI2-LVDT 	LVDT and RVDT sensors, 5- or 6-wire connection	3 V at 2.5, 5 or 18 kHz	1 kHz	±0.1 %	Soldering pads
MSI-BR-ACC 	IEPE® sensors, typ. accelerometer, microphone	4 mA	1.4 Hz to 100 kHz	±0.2 %	BNC
MSI2-CH-x 	Charge type sensors up to 100 000 pC	n/a	0.08 Hz to 300 kHz	±0.5 %	BNC
MSI2-TH-x 	Thermocouple sensors Standard models for type K, J, T, others on request	n/a	DC to 100 kHz	±1 °C	Mini TC socket
MSI-BR-V-200 	Voltage up to 200 V	n/a	DC to 100 kHz	±0.1 %	BNC
MSI2-V-600 	Voltage up to 600 V	n/a	60 kHz	DC to 1 kHz: ±0.1 % of reading ±100 mV >1 kHz-5 kHz: ±0.5 % of reading ±100 mV >5 kHz-10 kHz ±1 % of reading ±100 mV	Safety banana
MSI-BR-RTD 	RTD sensors PT100, Pt200, Pt500, PT1000, PT2000; 2, 3 and 4 wire connection	1.25 mA	DC to 10 kHz	±0.1 %	Binder 712 series 5-pin socket

# CONNECTOR PANELS FOR TRION-dLV

## TRION-CB16-B

Banana socket connector panel for TRION-1802-dLV or TRION-1600-dLV



## TRION-X-dLV-CB16-D9

Feature expansion box for TRION-1802-dLV-32 and TRION-1600-dLV-32 by MSI support. Enables measurement of strain gauge and bridge sensors, IEPE®, LVDT and RVDT, thermocouple, charge, RTD and voltage up to ±600 V.



# ANALOG SIGNAL CONDITIONING

Chassis for isolated signal conditioning amplifiers, suitable for a wide variety of sensors, including strain gauges, accelerometers, force sensors, pressure, load and flow sensors, thermocouples, as well as voltages and currents.



	DEWE-30-16	DEWE-30-32
Slots for DAQP modules	16	32
Interfaces	RS232, RS485, EPAD	
Conditioned signal output	±5 V (±10 V as option)	
Output connector standard	DSUB37	
Output optional	ORION, BNC	
Power supply	100 to 240 V <sub>AC</sub>	
Optional power supply	10 to 32 V <sub>DC</sub>	
Dimensions	438.5 x 253 x 133 (17.3 x 10 x 5.2 in.)	438.5 x 253 x 253 mm (17.3 x 10 x 9.6 in.)
Weight depending on configuration	4.5 kg (9.9 lb.)	7 kg (15.4 lb.)

## ENVIRONMENTAL SPECIFICATIONS

Operating temperature	0 to +60 °C
Storage temperature	-20 to +70 °C
Humidity	10 to 90 % non cond., 5 to 95 % rel. humidity
Vibration	EN 60068-2-6, EN 60721-3-2 Class 2M2
Shock	EN 60068-2-2

## ANALOG SIGNAL CONDITIONING WORKS PERFECTLY WITH

DIFFERENTIAL MODULES	CHANNELS	SAMPLE RATE PER CHANNEL	RESOLUTION	ISOLATION	INPUT TYPES
TRION-1802-dLV	16 or 32	200 kS/s 100 kS/s	18-bit 24-bit	-	DSUB
TRION-1600-dLV	16 or 32	20 kS/s	16-bit	-	DSUB



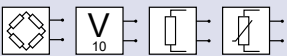


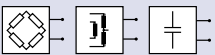
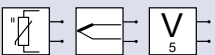



DEWE-30-16

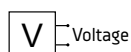
DEWE2-M4 with TRION-1802-dLV module

# MODULES FOR ANALOG SIGNAL CONDITIONING

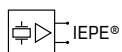
- > Isolation up to 1.8 kV<sub>RMS</sub>
- > Bandwidth up to 300 kHz
- > Configuration via push buttons or RS-485 interface
- > Free configuration software



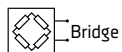
ANALOG MODULES	FEATURES	BANDWIDTH	ISOLATION	CONNECTOR TYPE
<b>UNIVERSAL MEASUREMENT</b>				
<b>DAQP-STG</b> 	Auto sensor balance Internal completion for 1/2 and 1/4 bridge uV amplifier with high bandwidth Continuously variable gain from 0.5 to 10 000	300 kHz	350 V <sub>DC</sub>	DSUB
<b>HIGH VOLTAGE</b>				
<b>DAQP-HV</b> 	1000 V <sub>RMS</sub> / 1400 V <sub>PEAK</sub> 10 MOhm input resistance	300 kHz	1800 V <sub>RMS</sub>	Safety banana
<b>VOLTAGE</b>				
<b>DAQP-LV</b> 	High input protection 12 ranges from 10 mV to 50 V Direct sensor supply with DSUB version	300 kHz	1000 V <sub>RMS</sub>	Safety banana, BNC, DSUB
<b>CARRIER FREQUENCY AMPLIFIER</b>				
<b>DAQP-CFB2</b> 	600 Hz to 20 kHz carrier frequency Very robust and stable bridge measurement Supports LVDT sensors	9.6 kHz	-	DSUB
<b>TEMPERATURE</b>				
<b>DAQP-MULTI</b> 	PT1000 to PT2000 TC types: K, J, T, R, S, N, E, B, L, C, U Integrated CJC and linearization	1 kHz	1000 V <sub>RMS</sub>	DSUB, universal mini TC
<b>DAQP-THERM</b> 	TC types: K, J, T, R, S, N, E, B, L, C, U Integrated CJC and linearization	1 kHz	1000 V <sub>RMS</sub>	Universal mini TC
<b>CHARGE / IEPE® MEASUREMENT</b>				
<b>DAQP-ACC-A</b> 	IEPE® sensors	300 kHz	-	BNC
<b>DAQP-CHARGE-B</b> 	Wide input range from ±100 to ±1 000 000 pC Supports quasi-static charge sensors Very low drift <0.03 pC/sec	100 kHz	350 V <sub>DC</sub>	Teflon BNC



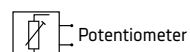
Voltage



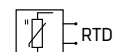
IEPE®



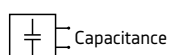
Bridge



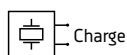
Potentiometer



RTD



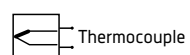
Capacitance



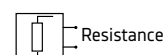
Charge



Inductive sensors



Thermocouple



Resistance

# OXYGEN

**OXYGEN is the most comprehensive data acquisition & analysis software available.**

## MULTIPLE MEASUREMENT SCREENS

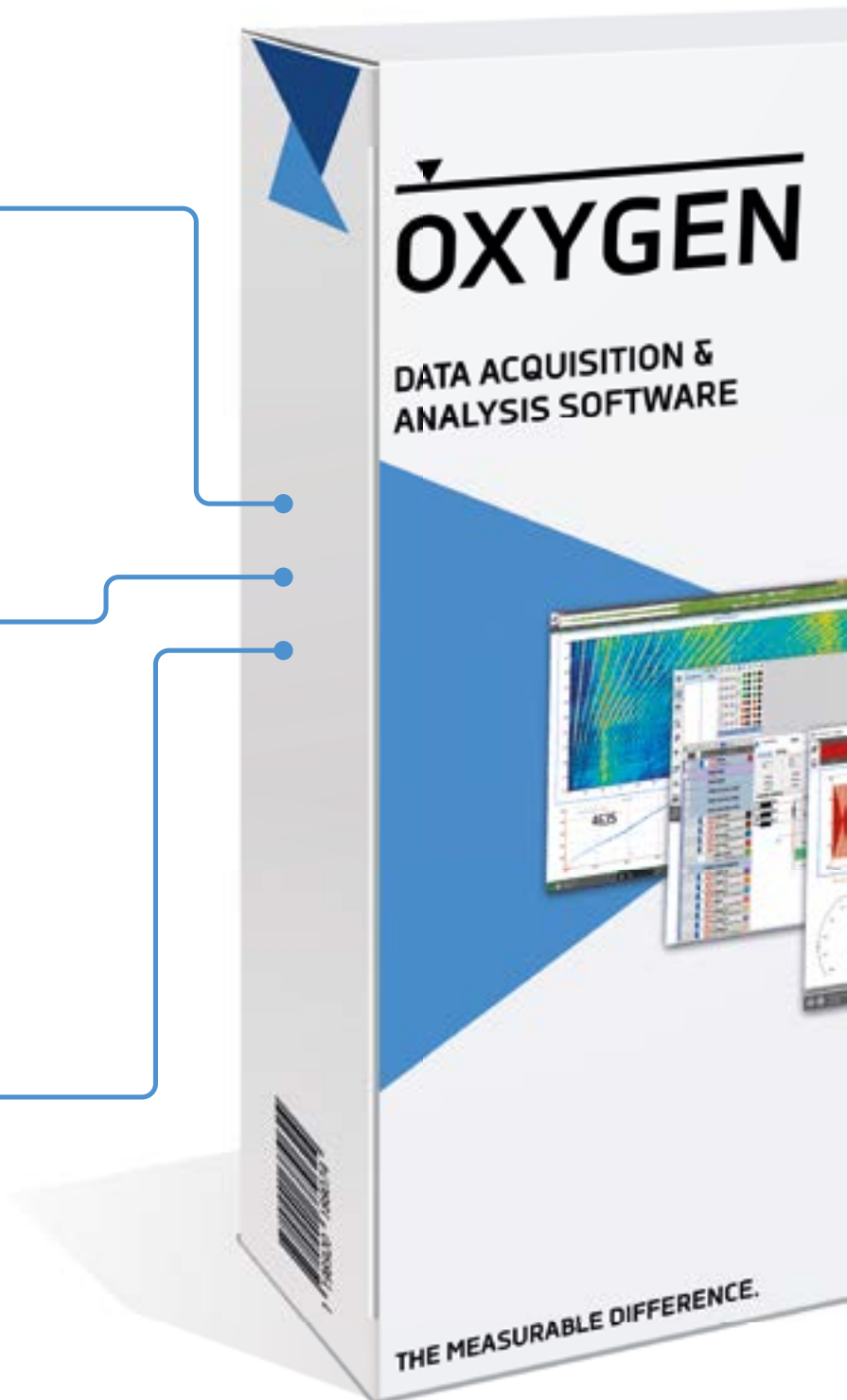
- > Organize your instruments on multiple screens
- > Simply create new screens with drag'n'drop

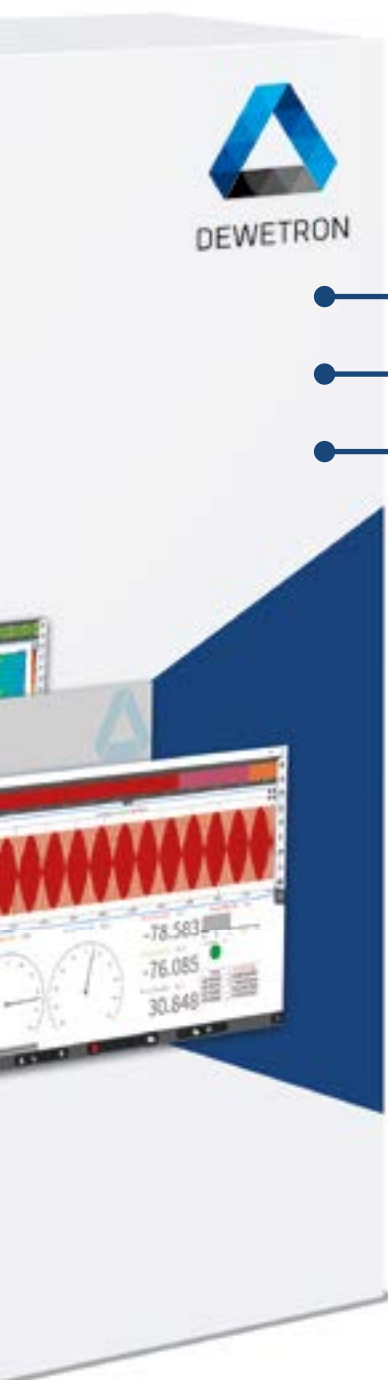
## EFFICIENCY & PERFORMANCE

- > Easy-to-use and intuitive
- > Efficient workflow that minimizes the time between setup and reporting
- > High-performance through 64-bit technology

## OXYGEN-NET FOR NETWORKED MEASUREMENT

- > High channel-count recording from 10 S/s to 10 MS/s per channel for local or distributed measurements
- > Hundreds of input channels
- > CPU load-distribution of online calculations and redundant storage
- > Easy-to-use synchronized measurement
- > Data transfer and remote channel setup





## ANALYZE WHILE RECORDING

**DejaView** allows you to view and analyze all data from the start of the test, while data is still being recorded – an especially useful feature for long term testing.

**Live View:** Live data is still visible at the same time on a different recorder, on the same or on a different screen.

## LOGGING & RECORDING

Freely define your measurement screen(s), up to hundreds of channels. Keep track of all your data by using multiple measuring screens.

Use trigger functions to immediately capture any anomaly in the data. Split data from one recording to separate data files. Record any input over a long period of time:

- > Voltage, current
- > Power
- > Temperature
- > Pressure
- > Acceleration
- > Strain gauge
- > And many more

## VIEWING & ANALYZING

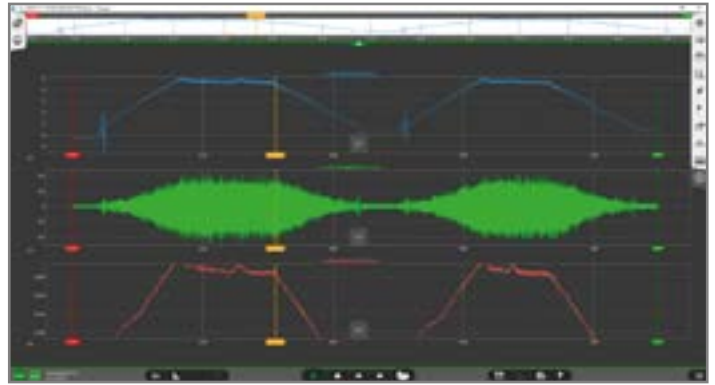
Multiple precision measurement instruments and analysis functions increase the value of your measurements:

- > Scope
- > FFT
- > E-Power calculation (efficiency measurement)
- > XY chart
- > DMS-rosette strain gauge measurement
- > And many more

## DATA ACQUISITION

Data acquisition is one of the core features of OXY-GEN. It is capable of continuous and synchronous acquisition of data from several sources: analog, digital, encoder, CAN, Ethernet, video, GPS and much more.

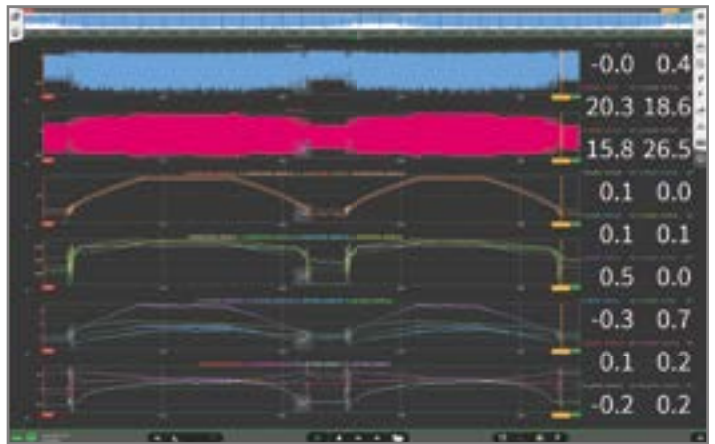
- > Analog data with up to 10 MS/s via TRION3
- > Digital and encoder data with automatic rpm and angle calculation
- > CAN(-FD) decoding via dbc, including J1939. Compatible with Vector VN-series (option)
- > Ethernet receiver for external sensors (option)
- > Video data from USB or GigE camera
- > Precision GPS position data via TRION, GeneSys ADMA or OxTS RT series



## RECORDING

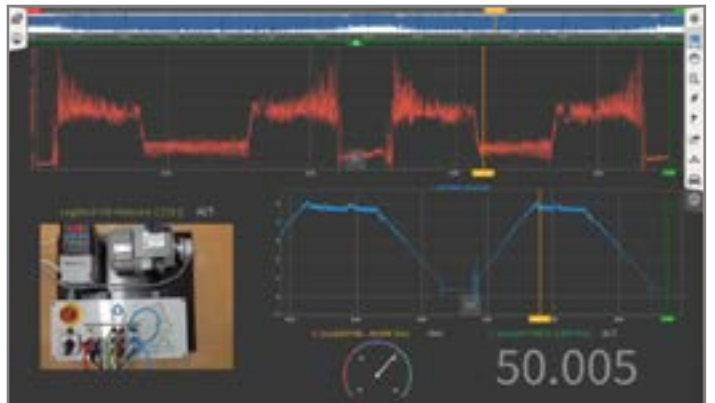
The second core feature of OXYGEN is powerful data recording. All the acquired data can be stored in one data file with a simple touch on the record button. With the right hardware, you can achieve data rates up to 1 GB/s, you don't have to bother to lose anything.

- > DejaView to review data during recording
- > File-split option for generating a new file after an amount of time or event occurrence
- > DMD-file format for efficient storage
- > Save data locally or remotely on a shared drive
- > Open on any PC with the installed OXYGEN software (for FREE)



## VISUALIZATION

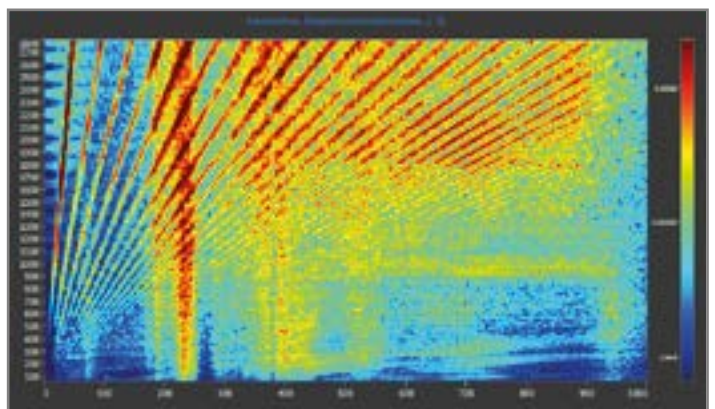
- > The right visualization gives the data its value. Attractively designed visualization instruments with intuitive and smooth operation.
- > 16 different visualization instruments for every purpose
- > Highly customizable screens, perfect for your application
- > Multi-monitor support for best overview
- > Review several data files parallel to each other with the OXYGEN Viewer



## ORDER ANALYSIS (OPTIONAL)

Noise and vibration analysis module for rotating machines. This feature turns your OXYGEN into a full order analysis instrument for calculation and visualization of frequency and order spectra vs. speed.

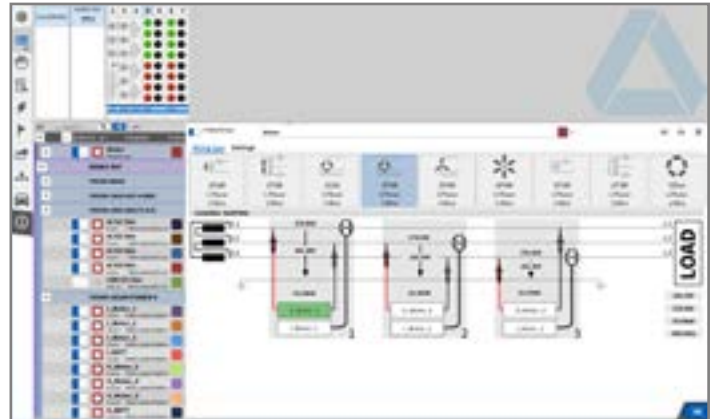
- > Simultaneous frequency and order domain analysis
- > Smart resampling algorithm for accurate and fast results
- > Selectable speed ranges from 60 to 100.000 rpm
- > Order resolution from 0.01 to 1, with up to 90 % overlapping
- > Order extraction for selected orders for use in recorder or XY-instrument
- > Visualization of the resulting matrix in intensity diagrams





## POWER ANALYSIS (OPTIONAL)

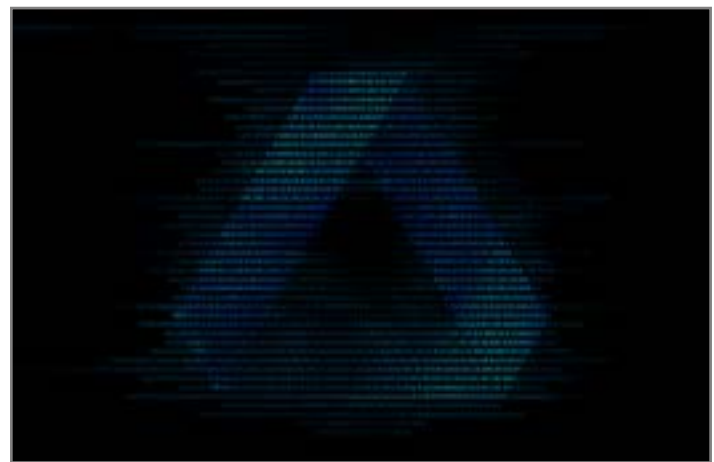
- > Analysis of 1-9 phase power systems (1P2W, 2V2A, 3P3W, 3P4W, 2x 3P3W, ...)
- > Several power systems are logically summarized into Power Groups
- > Gapless cycle-by-cycle calculation, no blind spots
- > Unique fundamental frequency detection with delay compensation for highest accuracy and reliability of the results
- > BASIC: voltage, current RMS, AVG, fundamental and symmetrical components, active/reactive/apparent power total and fundamental, energy
- > ADVANCED: harmonics (IEC 61000-4-7), flicker (IEC 61000-4-15), flicker emission (IEC 61400-21) and mechanical power/efficiency
- > EXPERT: rolling calculation meets FGW-TG3 (TR3)



## PLUGIN INTERFACE

You like OXYGEN, but it does not cover all your needs? Customize it! We are proud to announce our new plugin interface, which gives you the possibility to add more software functions on your own.

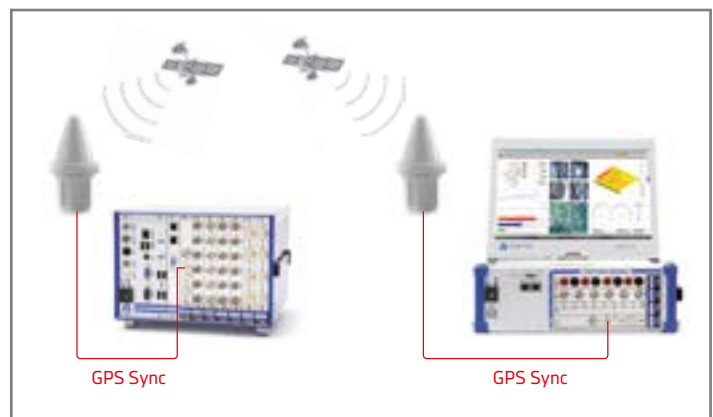
- > C++ Plugin Interface for customization
- > Add complex mathematical calculations, which are not supported by built-in functions
- > Use 3rd-party sensors and data sources and bring them into OXYGEN
- > Output data from OXYGEN via not supported interfaces
- > Visit us on GitHub and download example code: <https://github.com/DEWETRON>



## SYNCHRONIZATION

Use our TRION-BASE, TRION-TIMING or TRION-VGPS module to acquire data synchronously to other measurement devices. Relative time and absolute time synchronization are supported.

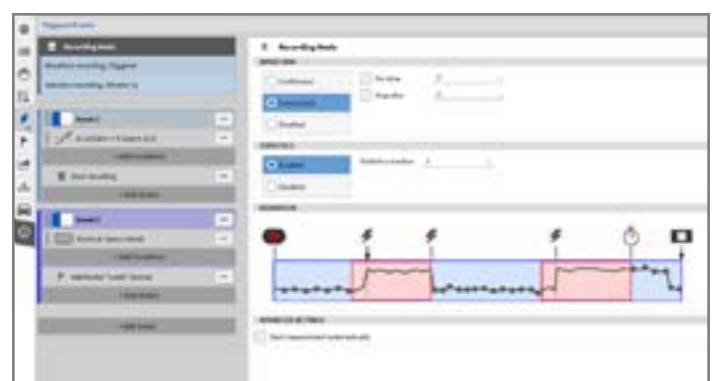
- > Absolute time synchronization via PTP (IEEE 1588), GPS and IRIG
- > Relative time synchronization via PPS and TRION-SYNC-BUS
- > Optional synchronization of operating system time



## TRIGGER & EVENTS

The powerful trigger and event system makes it easy to record data in case of events, create marker, set a digital output or make a snapshot of the actual measured data. The user can create different events, each consisting of one or more trigger conditions and one or more actions.

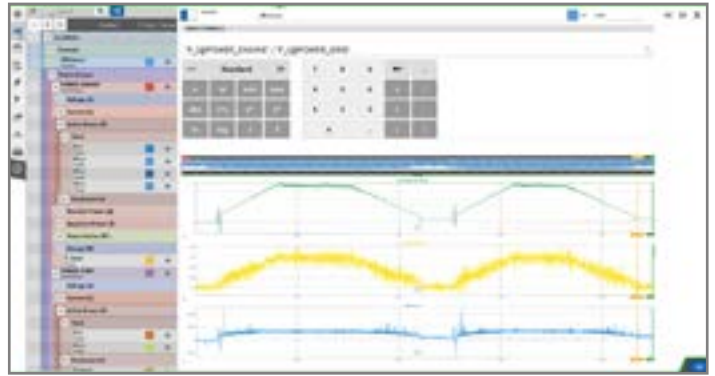
- > Many different trigger conditions: signal level (positive/negative edge, window) with optional rearm level, keyboard or time
- > Powerful actions like start/stop of recording, set an alarm with optional digital output, set a marker with pre-defined text or make a snapshot of the actual measured data.



## MATH AND CALCULATION

The highly customizable setup also allows the creation of several software channels to meet your purposes:

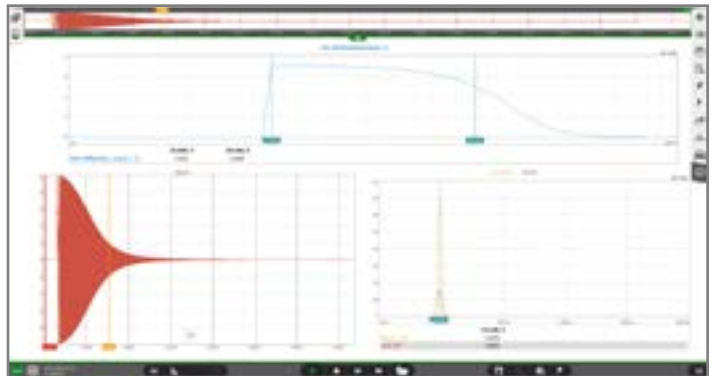
- > Formula for arithmetic and more advanced calculations (trigonometric, logical and measurement functions)
- > Block-wise statistics to calculate average, rms, min and max values
- > High, low, bandpass and bandstop IIR-filter up to the 10th order
- > DMS-rosette calculation module for 45°, 60°, and 90° setups
- > Psophometric analysis for railway and telecommunication applications



## ANALYSIS AND POSTPROCESSING

The real work often begins after the live measurement. To complete this workflow, OXYGEN also supports postprocessing and analysis of the recorded data.

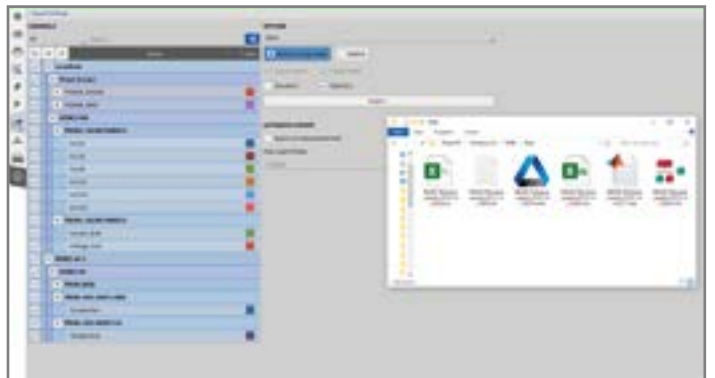
- > Use many of the math and calculation (also incl. FFT) features to refine your measurement results
- > Create new visualizations and measurement screens
- > Quick navigation through the data with well-known gestures and intuitive zoom and scrolling mechanisms
- > Create reporting pages (see below)
- > Export data to complete your workflow
- > And the best: you can do that also on your PC, license-free!
- > Calculation of a Constant Percentage Bandwidth (CPB) spectrum



## EXPORT FEATURES

If you need to use other analysis software for further data processing, we offer data export for the most common applications and formats.

- > Universal formats: CSV and TXT with selectable delimiter and timestamp format
- > Advanced formats: Excel (.xlsx), Matlab (MAT ver. 7.2), ASAM MDF4 (4.0 and 4.1), DMD, wave and RPC III
- > Select channels and/or time-range of the exported data
- > Optional automatic export at measurement end



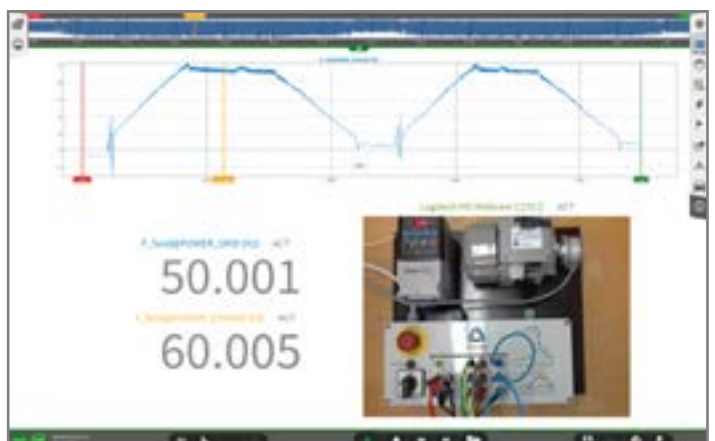
## VIDEO INPUT

Do you want to record video data additionally to your sensor inputs? No problem with OXYGEN! Use any USB-cam which is supported in Windows 10 or use our synchronized Manta GigE-cam for frame-by-frame synchronous acquisition.

- > Support of USB-cams as well as Manta GigE-cam
- > Separate video file for viewing and editing in other applications in MKV-format

## SOUND LEVEL (OPTIONAL)

Provides the online determination of the time dependent sound pressure level, the energy equivalent sound pressure level, freely definable statistical sound pressure levels and many more.



## SENSOR DATABASE

The sensor database is your personal list of sensors which you can simply use in the channel setup

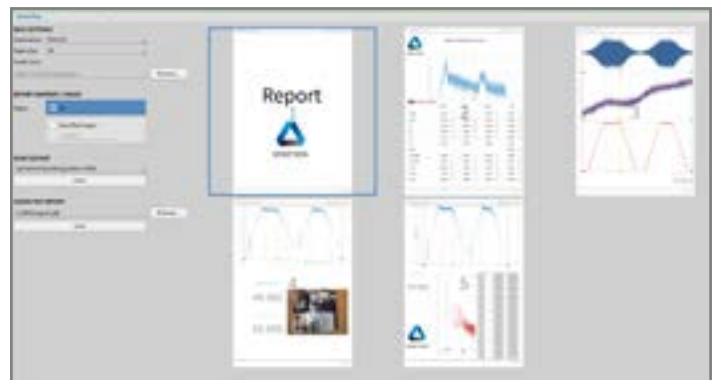
- > Simple edit of the sensors with a workflow similar to the channel list
- > Store name, serial number and scaling information of each sensor you want to use, including optional settings of the used input channel like measurement mode, filter, and excitation
- > Independent from the measurement setup, you can create your personal sensor database once and use them on all your measurement devices by simply copy/paste of the database

Name	Serial No.	Scaling	Input Mode
IA-11-01		Scale: 100 Offset: 0	Unit: A Current
IA-15-226		Scale: 2000 Offset: 0	Unit: A Current
IA-15-400		Scale: 2000 Offset: 0	Unit: A Current
IA-15-700		Scale: 2000 Offset: 0	Unit: A Current
IA-15-7000		3 point scaled	Unit: A Voltage
IA-15-1000		Scale: 2000 Offset: 0	Unit: A Current
PNA-C...-D-30		Scale: 30 Offset: 0	Unit: A Voltage
SE-C...-D-0C		Scale: 2000 Offset: 0	Unit: A Voltage
SE-C...-DC-5		Scale: 100 Offset: 0	Unit: A Voltage

## REPORTING

Use OXYGEN for your whole measurement workflow. From acquiring data to postprocessing and finally reporting the data.

- > Separate reporting pages (additional to the measurement screens) with typical printing layouts
- > Just duplicate a measurement screen or create new pages with a simple click
- > Use all instruments and visualizations also in the reporting pages
- > Separate time-cursor on each page available to report different time snippets in one report
- > Directly print or save to pdf



## REMOTE CONTROL AND DATA TRANSFER

OXYGEN does not only support local operations like other measurement software, but also a remote control for setup, acquisition, and measurement. Different options are available:

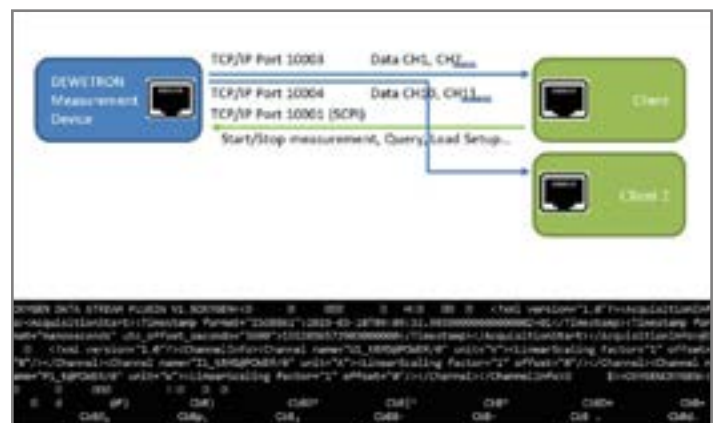
- > SCPI over Ethernet (included) for loading setup, recording control, and data transfer
- > XCP over Ethernet for recording control and data transfer (ASAM standard) to testbed controller (Vector CANape or ETAS INCA) with up to 10 kS/s
- > EtherCAT in combination with TRION-EtherCAT
- > CAN input and output (trigger measurement or cyclically sent data)



## DATA STREAM (OPTIONAL)

Live data processing in your own application? The data stream feature makes it possible! Stream the acquired data (including calculated data like power or statistics) via TCP/IP with highspeed to one or even more applications.

- > Stream the acquired data via TCP/IP
- > Configure stream(s) via SCPI-interface for fully remote-control operation
- > Supports 1 to N streams, individually configurable channel selection



# DEWETRON SDK FOR PROGRAMMERS

With DEWETRON, you get an open platform to develop your own measurement application or extension. Depending on your requirements, you can choose between two Software Development Kits: TRION-SDK and OXYGEN-SDK.

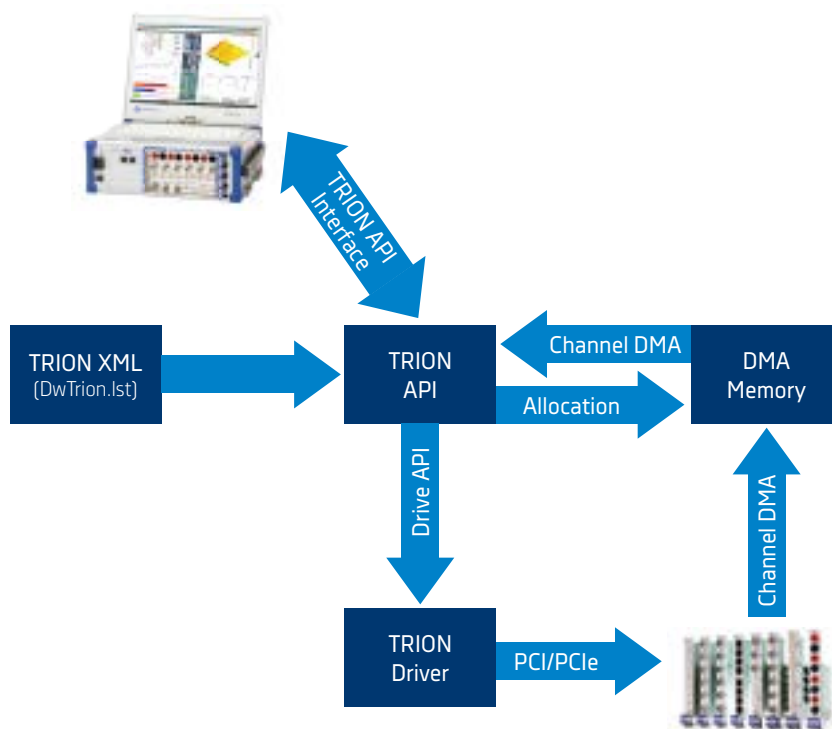


Visit us on GitHub for more information  
<https://github.com/DEWETRON>

## TRION-SDK

The TRION-SDK helps you, to build your own measurement application based on the DEWE2/DEWE3 and TRION/TRION3 hardware platforms. It also supports the use of TRIONet.

We support Windows 7 (32-bit/64-bit), Windows 10 (64-bit), Ubuntu 1604 LTS, 1804 LTS, and Redhat/CentOS Enterprise Linux. C/C++ are the natively supported programming languages, additional bindings to Python, C#, and Delphi.



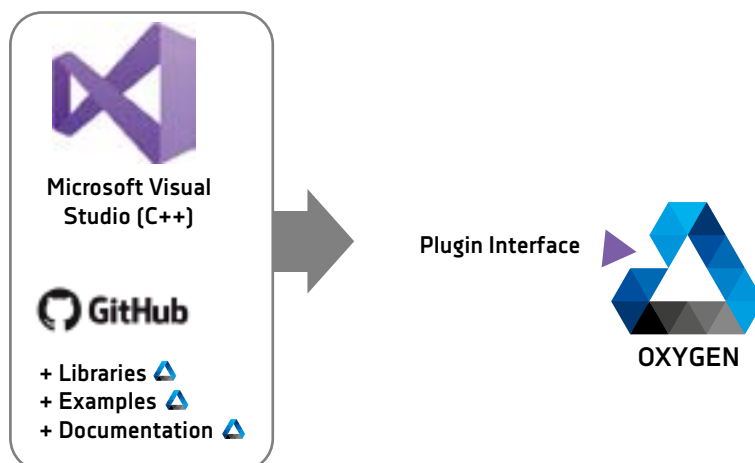
## OXYGEN-SDK

With OXYGEN-SDK, you are capable to develop your own plugins for the OXYGEN Measurement Software.

With the SDK, the following features are available for the plugin:

- > Read and write data from/to numeric channels
- > Create new channels
- > Create config items for setup save/load and user config
- > Numeric, text, channel list
- > And much more...

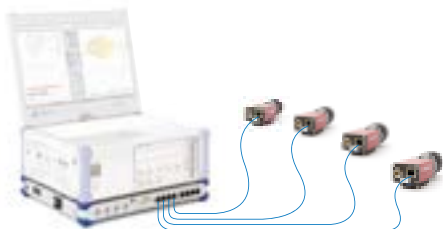
This allows you, to extend OXYGEN with additional calculations and data I/O.



# ACCESSORIES

## CAMERAS

USB and Ethernet cameras;  
Split-box for supplying and connecting  
Ethernet cameras



## MOBILE DISPLAY

External multi-touch display for mobile  
applications



## CARRYING CASES

Carrying cases and transportation systems  
are available for all systems



## POWER SUPPLY SOLUTIONS

Power supplies, battery and distribution  
boxes



## SENSOR SUPPLY SOLUTIONS

Different solutions for sensor supply from  
internal TRION-PSU-15W module to  
external boxes



## CURRENT TRANSDUCERS

Several solutions for current measurement  
from simple shunts to current clamps and  
high-precision zero flux transducers.



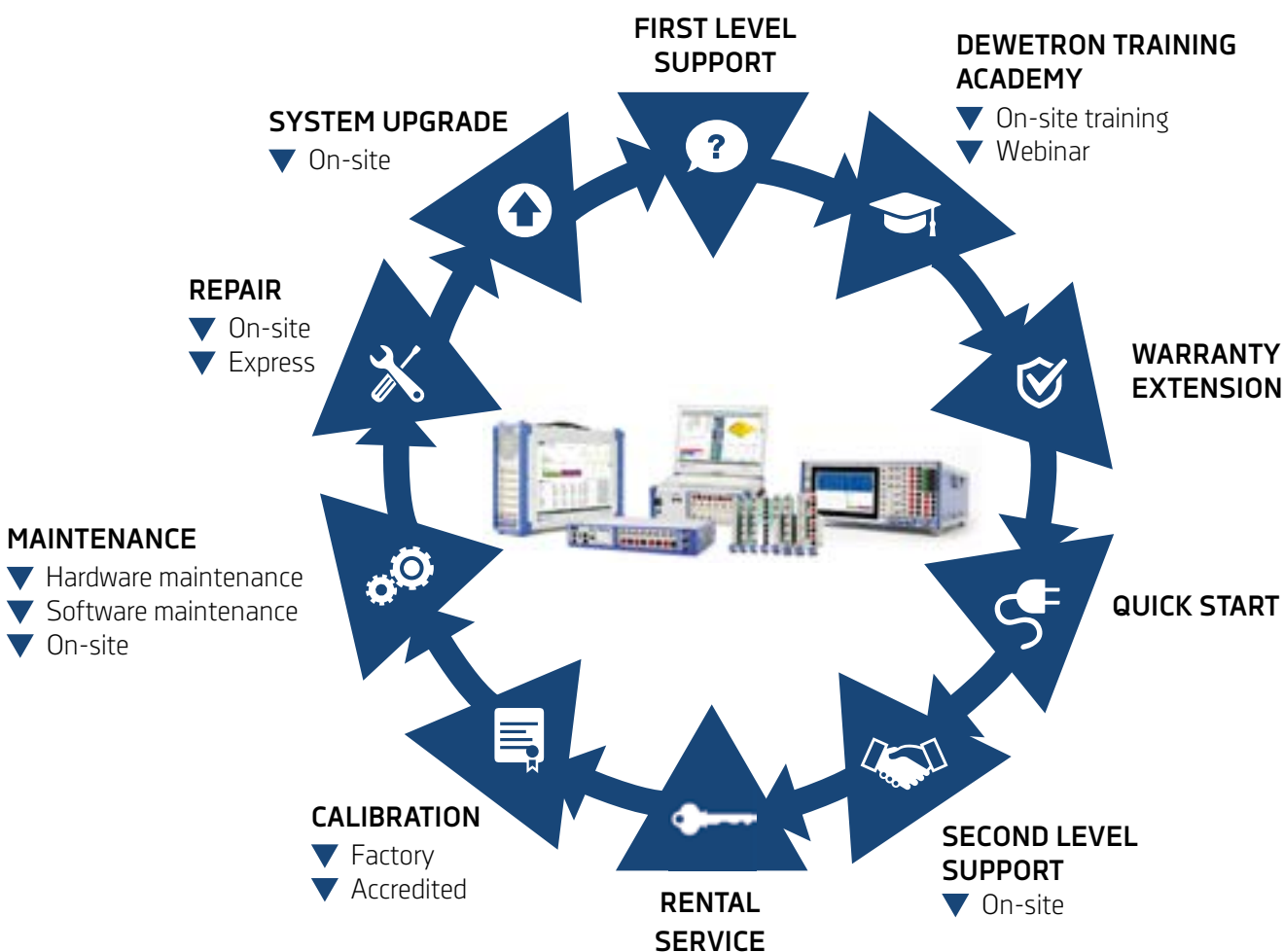
# SERVICES

## OFFERED BY OUR CUSTOMER CARE CENTER



The purchase of your DEWETRON system is the first step to collecting accurate and traceable measurement data. Customize your system with any or all of the available data acquisition modules and record vastly different signal sources in perfect sync.

DEWETRON Customer Care Packages guarantee that you realize the maximum value from your investment. As a DEWETRON Customer Care Package customer, you will immediately benefit from instant access to our global network of professional support and service teams.



### Do you already know the DEWETRON Academy?

The DEWETRON Academy is a platform for measurement professionals as well as those who want to become one. With our Academy we want to simplify the knowledge transfer between customers and DEWETRON. The platform includes a variety of short video clips where you can learn how to use our measurement software OXYGEN, explore hidden features and improve your know-how. Our whitepapers keep you up to date about the latest trends and technologies in the test and measurement sector.

Visit [www.dewetron.com/academy](http://www.dewetron.com/academy) or follow us on [LinkedIn](#) to never miss any update!

# ACCREDITED SCOPE



VOLTAGE (DC)	CURRENT (DC)	TEMPERATURE SIMULATION (RTD) Pt100 Pt200 Pt500 Pt1000
VOLTAGE (AC)	CURRENT (AC)	POWER (DC)
RESISTANCE (DC)	TEMPERATURE SIMULATION (DC)	ACTIVE POWER (AC)

# CUSTOMER CARE PACKAGE OFFERING

All Customer Care Packages are customized, so you receive the services that are best suited to your needs.

From Basic to Care+, DEWETRON has the right package for your business.

Customer Care packages are available for **up to 5 years** (incl. first year warranty) with different coverage levels.

CUSTOMER CARE PACKAGES	WARRANTY EXTENSION	SOFTWARE PACKAGE	CARE PACKAGE	CARE+ PACKAGE
Customer support	✓	✓	✓	✓
Extended warranty	✓		✓	✓
Software maintenance		✓		
Hardware maintenance			✓	✓
Factory calibration			✓	
Accredited calibration				✓





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**ABOUT DEWETRON**

DEWETRON is an Austrian manufacturer of precision Test & Measurement systems designed to help our customers make the world more predictable, efficient and safe. Our strengths lie in customized solutions that are immediately ready for use while also being quickly adaptable to the changing needs of the test environment and sophisticated technology of the Energy, Automotive, Transportation and Aerospace industries.

More than 30 years of experience and innovation have awarded DEWETRON the trust and respect of the global market. There are more than 25,000 DEWETRON measurement systems and over 400,000 measurement channels in use in well-known companies worldwide. Choosing DEWETRON means, having a partner by your side who accompanies you every step of the way.

DEWETRON employs over 120 people in 25 countries and is part of the TKH Group, a global corporation, that specializes in the development and supply of innovative solutions worldwide. DEWETRON quality is certified in compliance with ISO9001, ISO14001 and ISO17025.



**THE MEASURABLE DIFFERENCE.**

[www.DEWETRON.com](http://www.DEWETRON.com)