



DEWETRON



# TRIONet3

FOR USB3 & ETHERNET



# TRIONet3

## THE UNIVERSAL MEASUREMENT SOLUTION



TRIONet3 is the flexible measurement system for USB 3.0 and Ethernet measurements. Decentralized measurement tasks are easily managed with intelligent, simple cross-linking and the capability to increase the number of input channels as needed.



### Distributed or local measurements

TRIONet's integrated synchronization between devices and remote PCs makes the TRIONet3 the ideal solution for distributed measurement tasks with up to 100 meters between the TRIONet3 nodes.



## READY FOR ALL MEASUREMENTS



### LOCAL OR DISTRIBUTED MEASUREMENTS

Whether in the field or in the office there can be several hundred feet between the TRIONet3 and your PC or laptop, impacting data integrity. TRIONet's integrated synchronization between devices and remote PCs makes the TRIONet3 the ideal solution for distributed measurements.



### FLEXIBLE CONNECTION TO THE PC WORLD

USB or Ethernet? There is nothing to choose. With the versatility of both USB 3.0 and Gigabit Ethernet connector ports the right high-speed interface is always available. For Linux and Windows operating systems.



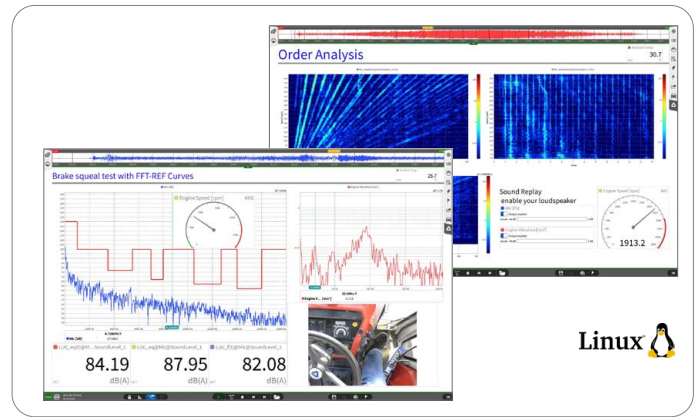
### UNBEATABLE FLEXIBILITY WITH MODULES

TRIONet3 is easily customized to numerous measurement requirements by exchanging one or both of the TRIONet3 modules. Expand the channel count by synchronizing other systems with the TRIONet3 for more versatility.

# SOFTWARE OXYGEN

Our measurement software OXYGEN ensures easy and quick setup of the TRIONet3. Just plug & play to start the gapless data recording. Customize the software according to your measurement tasks by defining different screens and views.

OXYGEN is perfectly suited for simple data recording with a clear visualization of all data and enables meaningful reports (e.g. as PDF) to be created in record time. Monitoring applications are supported by triggered recordings and multi-file storage. For demanding measurements, OXYGEN offers enhanced features like powerful math-functions, FFT analysis, order analysis, swept sine analysis, power analysis etc.



# POWER ANALYSIS WITH ADDITIONAL SIGNALS

Choose from a wide range of TRIONet3 signal conditioning modules to measure analog signals from any sensor absolute synchronously. Enjoy maximum flexibility with these user-exchangeable modules featuring A/D conversion on each channel and anti-aliasing filters.

In addition to standard analog inputs like voltage, current, thermocouple, bridge, counter, GPS, IEP, and many more, the TRIONet3 can become the smallest power analyzer.

You only need a TRIONet3 power module and you have a mixed-signal power analyzer, which means you only need ONE system for synchronized inputs.



## CONNECTION OF CURRENT CLAMPS

To connecting current clamps to a TRIONet3, we have a ready-to-use box: the CLAMP-DC-POWER-8. It has integrated power supply to power up to eight current clamps ( $\pm 15$  V/+9 V) as well as a power supply connector for the instrument ( $11$  to  $32$  V<sub>DC</sub>).



## INDEPENDENT POWER SUPPLY WITH BATTERY

The external, stackable battery pack offers DC power supply with three hot-swappable batteries. Due to the hot-swappable technology, the three batteries can be exchanged during the ongoing measurement and enable mobile continuous operation without any disruption.

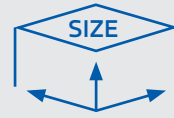


## SECURE MOUNTING OPTION FOR 19" RACK

This rack-mount kit safely and securely mounts your TRIONet3 front-end into any standard 19" rack system, using just 3.5" of vertical space. Kits can be made to hold up to four TRIONet3 instruments.

# APPLICATION EXAMPLES

- > Real-time drive testing on trains
- > Electrical vehicle testing in real-time
- > Distributed efficiency measurement at solar farms
- > Windmill testing

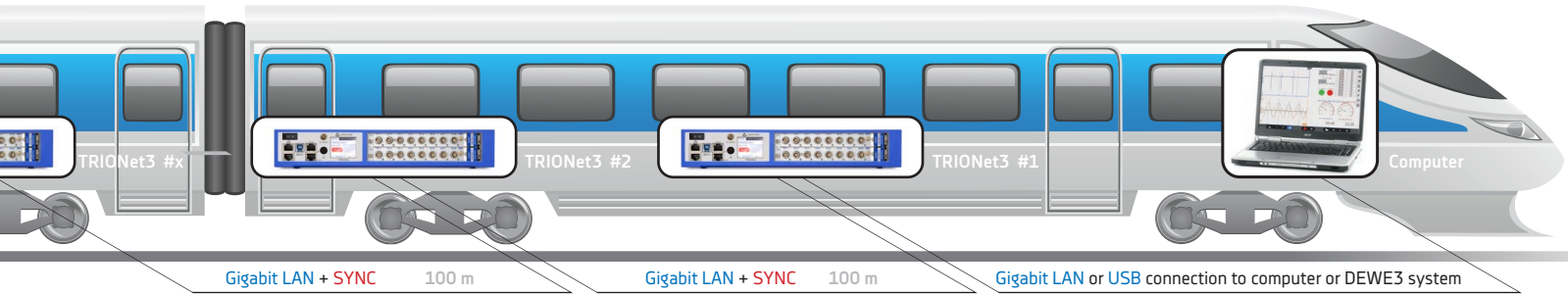


**320 x 205 x 55 mm**  
12.6 x 8 x 2.2 in



**WEIGHT**  
WITHOUT  
MODULES

**1900 g**  
4.2 lbs



	TRIONet3
Slots for TRION3 modules	2 (up to 16 analog channels)
Low-speed channel expansion	XR modules (requires CAN input)
LAN and LAN configuration	2 x 1000BASE-TX Gigabit Ethernet; DHCP or static IP
Synchronization	TRION-SYNC-BUS up to 100 m between nodes
System bandwidth	90 MB/s with one connected TRIONet3 (up to 50 MB/s with more than one)
Cooling	2 temperature controlled ultra silent fans
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. 85 W
External power supply (included)	100 to 240 V ~50 to 60 Hz / 90 W
Option	Ext. battery pack, 3 battery slots for ~4 h operation (DW2-UPS-250-DC)

## ABOUT DEWETRON

DEWETRON is a manufacturer of precision test and measurement systems and part of the globally operating Anritsu Group. Our reliable measurement data help customers worldwide make processes more predictable, efficient, and safer.

Our strength lies in customized measurement solutions: ready to use right away while remaining flexible to adapt to dynamic testing requirements in the energy, automotive, transportation, and aerospace industries.

More than 35 years of experience and innovation have made DEWETRON a trusted partner in the global test and measurement market.

More than 25,000 DEWETRON measurement systems and over 400,000 measurement channels are in continuous use at leading companies worldwide.

DEWETRON's quality is certified according to ISO 9001 and ISO 14001. The high integrity of the measurement data is guaranteed by our own accredited calibration lab according to ISO 17025.

### THE MEASURABLE DIFFERENCE.

Get to know our  
GLOBAL OFFICES



**DEWETRON**

**DEWETRON Inc.**  
2850 South County Trail  
East Greenwich, RI 02818  
USA

+1-401-284-3750  
us.sales@dewetron.com  
www.dewetron.com

