



DEWETRON

# DEWE3-A4

THE MOBILE POWER ANALYZER



THE MEASURABLE DIFFERENCE.

# DEWE3-A4

*Every DEWETRON data acquisition system can be a Mixed Signal Power Analyzer*

The DEWE3-A4 DAQ system is the best solution for mobile power analysis in the field. The four TRION(3) slots for up to 32 analog measurement inputs and the 1 TB data SSD, in combination with the intuitive OXYGEN measurement software, make it universally and flexibly applicable. Whether field measurements, in the vehicle, or on the test bench – the measurement possibilities with this compact and rugged system are limitless.

- > Up to 32 analog inputs (via exchangeable TRION(3) modules)
- > Digital inputs, counter and CAN integrated
- > Up to 10 MS/s simultaneous sampling rate
- > Comprehensive SYNC options
- > Isolated DC power supply & optional battery pack
- > Optional internal UPS buffer battery for <5 min
- > 13.3" wide-screen multi-touch full HD display
- > 1 TB Solid State Disk, 400 MB/s



## MIXED SIGNAL INPUT

Our Power Analyzers are also mixed-signal recorders, which means you only need ONE system for all inputs:

- > Modular and mixed signal inputs
- > Isolated high voltage & current inputs
- > High-performance auxiliary inputs (e.g. torque, speed, vibration)
- > CAN interface with input and output
- > Testbed integration
- > High number of mid-speed inputs for low dynamic signals (e.g. temperature)
- > PTP, GPS, IRIG synchronization
- > Counter



## INDEPENDENT POWER SUPPLY

The optional battery pack turns the DEWE3-A4 into a completely independent data acquisition system. The three rechargeable batteries last for up to two hours of operation. Due to the "hot-swap technology", the batteries can be exchanged during ongoing measurement and enable mobile continuous operation without an external power supply.



## ONE SOFTWARE ON ALL SYSTEMS

The DEWE3-A4 can use its full potential with our easy-to-use OXYGEN measurement software, which supports you with a huge amount of software features that are continuously extended with each new release. OXYGEN can not only be used with every DEWETRON measurement system with an integrated PC but is also compatible to 3rd party components from Vector, GeneSys, and OxtS. And it doesn't stop there, OXYGEN can also be used on any PC without any hardware to do post-processing by making use of the many offline features, analyze and export your recorded data and even create setups.





# POWER MODULES

Choose between different power modules of the TRION3 and TRION series for 4-phase power analysis and up to 10 MS/s sampling rate.

Because of the unique modularity, 4 slots of each power module (8 slots of the TRION3-1810-SUB-8) can be equipped with different sub-modules (direct current measurement modules or voltage modules) to connect almost any kind of current or voltage transducer.



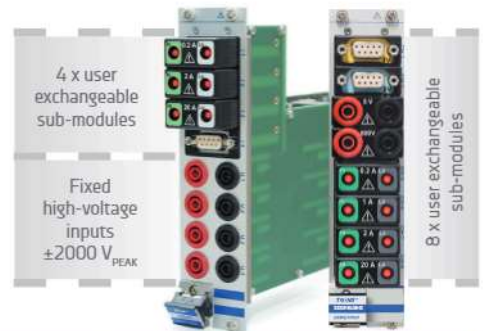
POWER MODULES	CHANNELS	SAMPLE RATE PER CHANNEL	RESOLUTION	ISOLATION	CONNECTOR TYPES
TRION3-1810M-POWER <sup>1) 2)</sup>	8 (4 U / 4 I)	10 MS/s	18-bit	yes	Safety banana, exchangeable sub-modules
TRION3-1820-POWER <sup>1) 2)</sup>	8 (4 U / 4 I)	2 MS/s	18-bit	yes	Safety banana, exchangeable sub-modules
TRION-1820-POWER <sup>2)</sup>	8 (4 U / 4 I)	2 MS/s	24-bit	yes	Safety banana, exchangeable sub-modules
TRION-1810-HV <sup>2)</sup>	8 (4U / 4I)	1 MS/s	24-bit	yes	Safety banana, exchangeable sub-modules
TRION3-1810-SUB-8 <sup>1) 2)</sup>	8	1 MS/s	18-bit	yes	Exchangeable sub-modules

<sup>1)</sup> All TRION3 modules require a DEWE3 express chassis <sup>2)</sup> These modules occupy 2 TRION slots

## USER-EXCHANGEABLE TRION SUB-MODULES

Create individual input configurations with our sub-modules. They are user-exchangeable at any time, automatically detected and the calibration data is directly stored inside the sub-module.

The only exception is the TRION3-1810-SUB-8 module: With its 8 user-exchangeable sub-modules, it is the most flexible TRION power module.



	SUB-MODULE	RANGE	SAFETY	BANDWIDTH	CONNECTOR	USER EXCHANGEABLE	
VOLTAGE	1 V module	1 V <sub>RMS</sub> (±2 V <sub>PEAK</sub> )	Not isolated. Depending on connected clamp	5 MHz	D-SUB-9 socket	Yes	
	5 V module	5 V <sub>RMS</sub> (±10 V <sub>PEAK</sub> )		5 MHz	D-SUB-9 socket		
	600 V module	600 V <sub>RMS</sub> (±1500 V <sub>PEAK</sub> )		150 kHz	D-SUB-9 socket		
	5 V module	5 V <sub>RMS</sub> (±10 V <sub>PEAK</sub> )	CAT II 600 V, isolated	300 kHz	Safety banana		
	XV module	600 V <sub>RMS</sub> (±1000 V <sub>PEAK</sub> ) 60 V <sub>RMS</sub> (±100 V <sub>PEAK</sub> ) 6 V <sub>RMS</sub> (±10 V <sub>PEAK</sub> ) 0.6 V <sub>RMS</sub> (±1 V <sub>PEAK</sub> )		300 kHz	Safety banana		
	CURRENT*	20 A module	20 A <sub>RMS</sub> (±40 A <sub>PEAK</sub> )	CAT II 600 V, unfused	300 kHz		Safety banana (male)
2 A module		2 A <sub>RMS</sub> (±4 A <sub>PEAK</sub> )					
1 A module		1 A <sub>RMS</sub> (±2 A <sub>PEAK</sub> )					
0.2 A module		0.2 A <sub>RMS</sub> (±0.4 A <sub>PEAK</sub> )					

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

FIXED HIGH-VOLTAGE INPUTS	RANGE	SAFETY	BANDWIDTH	CONNECTOR	USER EXCHANGEABLE	
Voltage input U1, U2, U3, U4	1000 V <sub>RMS</sub> (±2000 V <sub>PEAK</sub> )	CAT IV 600 V / CAT III 1000 V	5 MHz	Safety banana	No	

# DEWE3-A4 SPECIFICATIONS



	DEWE3-A4
Slots for TRION/ <b>TRION3</b> modules	4 TRION / <b>TRION3</b>
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	1 TB SSD dedicated for data storage 256 GB SSD for operating system and application software
Optional data storage	Up to 1 TB SSD
Gap free storing rate	Max. 400 MB/s
Display	13" TFT touchscreen, full HD
<b>POWER SUPPLY</b>	
Input voltage (max.)	10 to 36 V <sub>DC</sub> isolated incl. external AC power supply
Option 1	Internal buffer battery for ~ 5 min. operation
Option 2	(DW2-UPS-250-DC) Ext. battery pack, 3 battery slots for ~2 hours operation
<b>DIMENSIONS</b>	
Dimensions (W x D x H) without handle/feet	318 x 253 x 128 mm (12.5 x 10 x 5 in.)
Weight without modules and batteries <sup>1)</sup>	Typ. 5.9 kg (13 lb.)
Weight of one battery: 540 g (1.20 lb.)	



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## ABOUT DEWETRON

DEWETRON is a 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. 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's quality is certified in compliance with ISO9001, ISO14001. The high integrity of the measurement data is guaranteed by our own accredited calibration lab according to ISO17025.

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