

ONE POWER ANALYZER. UNLIMITED INSIGHTS.

DEWETRON'S ADVANCED POWER ANALYZERS



DEWETRON

MODULAR & SCALABLE: BUILD YOUR HIGH-PRECISION POWER ANALYZER

Get your individual power analyzer for every field of application by choosing suitable power modules in combination with additional TRION(3) measurement modules. Data from different sensors are perfectly synchronized, e.g. electrical data, mechanical data, vehicle bus data, video, sound, positioning data, etc.

One power analyzer for the synchronized acquisition of different signals – even real-time and raw data – and their storage in one data file.

With up to 16 synchronized power phases (which are even expandable), up to 10 MS/s sampling rate, and continuous raw data recording, they deliver reliable results even in the most demanding applications.

Compared to other power analyzers available on the market, the DEWETRON Power Analyzer offers a constant low measurement error of only 0.03 % from 0.5 Hz to 1000 Hz fundamental frequency.

**HIGH
ACCURACY**

0.03 %
Measurement
Error

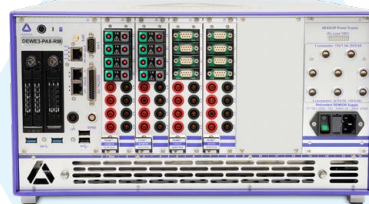
**HIGH
SCALABILITY**

16
Power Phases

**HIGH
SAMPLE
RATE**
10 MS/s
Per Channel



**PORTABLE
POWER ANALYZER**



**STATIONARY
POWER ANALYZER**



**ALL-IN-ONE
POWER ANALYZER**

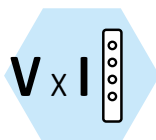


**SMALLEST
POWER ANALYZER**

**BUILT FOR MODERN POWER TESTING: IDEAL FOR E-MOBILITY, INVERTER TESTING,
BATTERY TESTING, RENEWABLE ENERGY, AEROSPACE AND INDUSTRIAL APPLICATIONS.**



Acquisition of **additional inputs** such as IEPE®, thermocouple, counter, CAN, GPS, video, SCPI, etc.



Up to **16 power phases** (16 x U + 16 x I), expandable



Current transducer supply is integrated and redundant



Test stand integration standardized (EtherCAT, SCPI, XCP, CAN-FD, data stream, ...)



Remote configuration and control

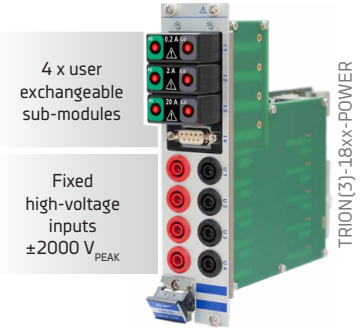
INDIVIDUAL INPUT CONFIGURATION WITH SUB-MODULES

We offer you a unique modularity: 4 slots of each power module or even 8 slots of the TRION3-1810(M)-SUB-8 can be equipped with different sub-modules. Choose between direct current measurement modules or voltage modules to connect almost any kind of current or voltage transducer.

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



8 x user exchangeable sub-modules



4 x user exchangeable sub-modules
Fixed high-voltage inputs $\pm 2000 \text{ V}_{\text{PEAK}}$

TRION(3)-18xx-POWER



CURRENT TRANSDUCERS & CLAMPS

DEWETRON offers several solutions for current measurement from simple shunts to current clamps and high-precision zero flux transducers. There are versions for pure AC current which do not need any power supply and versions for DC and AC current which can be supplied from the DEWETRON instrument. Sensors requiring $\pm 15 \text{ V}$ or $+9 \text{ V}$ supply voltage can be powered directly. Therefore, sensors such as zero-flux transducers do not need an extra power supply.



POWER ANALYSIS SOFTWARE: CONTINUOUS & GAPLESS WAVEFORM RECORDING

Turn your DEWETRON measurement device into a fully-featured power analyzer with our OXYGEN software packages:

- > 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 calc. no blind spots
- > Unique fundamental frequency detection with delay compensation for highest accuracy and reliability
- > BASIC: vol., curr., RMS, AVG, fundamental & symmetrical components, active/reactive/apparent power total & 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



6 REASONS WHY CHOOSE DEWETRON

1. **Unified hardware architecture:** One hardware architecture and file format for different applications to simplify your setup.
2. **Extended warranty:** Enjoy our 5-year warranty, ensuring long-term reliability.
3. **Accredited calibration services:** Benefit from ISO 17025-accredited calibration services guaranteeing accuracy and compliance.
4. **Certified quality management:** Our ISO-certified quality management upholds the highest standards across all business processes.
5. **Straightforward software licensing:** Our simple software license policy ensures ease of use and flexibility.
6. **Dedicated local support:** Count on our highly responsive service team for personalized support and assistance.