



GRIDAID

Power Monitoring Solutions



GridAid Power Monitoring Solutions

**GridAid is more than a monitoring system
– it's a platform for action.**

Backed by decades of academic and industrial experience, GridAid transforms raw data into insights for predictive maintenance, flexibility services, and smarter investments.

Our unique strength lies in combining deep research roots with hands-on industry knowledge. The result is a future-ready toolset, purpose-built for DSOs navigating the challenges of the energy transition.



GridAid - Designed for the Grid. Built for You.

Reliable Expertise. Innovative Thinking. Proven Results.

- More than **20 years of industrial and academic experience** in energy systems operation and innovation.
- A dedicated core team of more than **30 experts**, including PhD-level researchers and senior industry professionals.
- Active participation in over **10 national and EU-funded projects** (Horizon 2020, Horizon Europe) directly addressing distribution grid digitalisation, flexibility, and energy communities.
- More than 10,000 engineering hours invested in developing our power quality monitoring technology
- Our devices are engineered for durability — many have been in continuous operation for more than 10 years.
- Proven track record with **E.ON Hungary** : large-scale LV monitoring deployments and **2,000+ transformer monitoring units** in the field.

What Sets Our System Apart is...

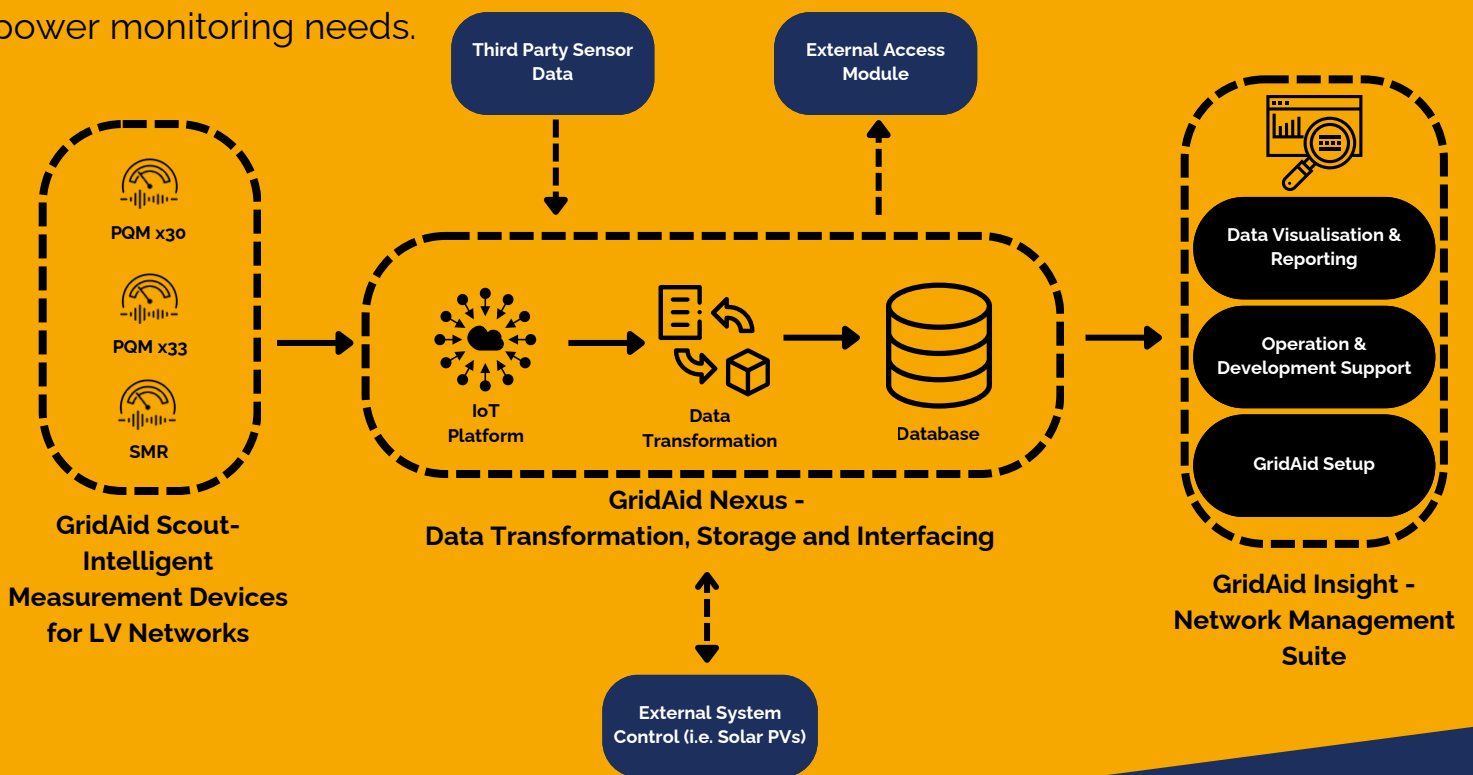
...its smart, modular design paired with expert support — offering fast and disruption free deployment, seamless integration, and tailored functionality to match real-world energy monitoring needs.

- **Plug and Play:** With pre-configured settings and compact sensor design, the system can be fully installed and operational within a single day.
- **Advanced Software, Immediate Results:** Our software includes numerous built-in analytics tools that are easy to understand and immediately actionable—no steep learning curve or external integration required.
- **End-to-End Support:** We don't just supply devices—we support you in designing your entire solution. Our experts work with you to determine exactly which system elements are needed and how to integrate them optimally into your environment.
- **Modular Architecture:** Can be deployed as a standalone system or seamlessly integrated into existing infrastructure, making it suitable for both green and brown field environments. You only pay for the components you actually need—nothing more, nothing less.
- **Highly Customisable:** Whether it's measurement parameters, visualisation preferences, or integration options, the system can be adapted to meet the unique needs of each customer.
- **Professional Insights:** Through a collaboration with Hungary's leading Technical University of Budapest, we offer consultancy services that help you leverage the capabilities of our system in ways tailored to your specific operation and business goals.
- **Excellent Price–Performance Ratio:** Our solution delivers industry-grade performance at a competitive cost—balancing quality, functionality, and affordability.

The GridAid Product Family

Our system is designed to meet the current needs of DSOs while also providing a future-proof solution that will remain relevant and working for decades. To achieve this, all system components incorporate the latest industrial technologies and are upgradeable, ensuring that the GridAid system evolves with technological advancements.

The system offers comprehensive support for operations, network planning, reporting, fault detection, and system control, making it a versatile and robust solution for all your power monitoring needs.



The GridAid Power Monitoring portfolio meets all the essential requirements of a modern monitoring system. It is composed of three key modules: GridAid Scout, our advanced measurement devices; GridAid Nexus, our data management solution; and GridAid Insight, our management software. The system's modular design allows our sensors to seamlessly integrate also with third-party solutions.

- **Operation support**
 - Fault detection
 - System control support
 - Quasi-real-time alarming
- **Network planning support**
- **Reporting**



GridAid Scout

Our measurement devices deliver high quality and precise measurement data from any segment of the low-voltage network.

- An **all in-one device** contains the measurement unit, the overcurrent protection module, the communication module, and the power supply.
- Can be used **indoor or outdoor**: The devices are IP65-rated, UV proof, can endure strong physical impact during transportation and installation.
- **Measurement Class A** - Measures the basic parameters like voltage, current, power, and complex ones like harmonics up to the 50th, waveforms and flicker with high precision
- Compliance with regulatory standards **EN61000-4-30 & EN50160**

GridAid Nexus

Seamlessly collect, transform and integrate critical power quality data from various sources with our advanced data solutions.

- High security standard
- Suitable for 3rd party equipment integration
- Scalable self hosted on premise or cloud database architecture
- Data delivery to multiple destinations for integration and testing

GridAid Insight

On top of the basic functionalities of a monitoring system like real-time supervision, alarming, reporting and statistics, Through the academic partnerships and research-driven development, GridAid platform offers advanced analytics and system-theory-based know-how.

- Predictive maintenance and state estimation
- Load and generation forecasting model
- Topology reconstruction algorithms
- Synthetic inertia and flexibility modelling
- Decision-support tools

*GridAid is the common brand of COMTECH Ltd. and F4STER .
For more information please visit www.comtech.hu/en/power*

