



SOLUTION OVERVIEW

The all-in-one system for scalable sound & vibration diagnostics

A proven system for confident, engineering-grade S&V testing and analysis – without the learning curve.

This solution brings together HBK's field-trusted data acquisition platform, Fusion-LN, with the BK Connect analysis software suite, giving teams everything they need to run clean, traceable tests straight out of the box so your team can get reliable results fast.

And, when you need support, our local S&V specialists are here to help.

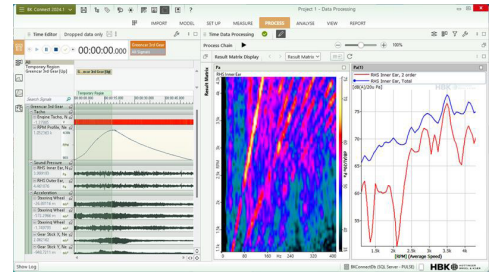
WHAT'S IN THE TROUBLESHOOTING ANALYSER

The Troubleshooting Analyser package consists of two core components – BK Connect analysis software and either the Fusion-LN or LAN-XI data acquisition DAQ solutions.

BK Connect Analysis Software

One licence. No hidden features. No patchwork setup.

BK Connect guides you from setup to reporting with a clear, structured workflow – reducing errors and helping you obtain consistent, confident results with minimal training.



FEATURE	WHAT IT ENABLES
Add modules and capabilities to BK Connect as you scale	Tailor the tool to your needs as they evolve. For example, you can start with our comprehensive troubleshooting BK Connect package and add a module for modal analysis as your S&V measurement expertise grows.
Immediate display and storage of analysis results	Get instant feedback during tests, so you can verify that your hardware is working and make faster decisions.
Template & metadata support	Save repeatable test setups and easily trace when, where, and how data was gathered and analysed.
Intuitive user interface	Streamline complex test projects with multiple tests, setups, and applications, so your people can work more efficiently.
Compare results between tests	Replicate and overlay results more easily and spot overarching issues with designs

BK Connect handles signal calibration, scaling, averaging, and filtering automatically based on your selected analysis type. It reads sensitivity and configuration data directly from the transducer – eliminating manual entry errors and reducing setup time.

Repeatability is built in: templates let you standardise analysis across test sessions or team members, even without S&V expertise.

Fusion-LN or LAN-XI DAQ Hardware

Choose the platform that fits your testing environment.

The Troubleshooting Analyser gives you a choice between two proven HBK data acquisition platforms – both built for precision, with configurations to support both portable field tests and complex, high-channel lab setups.

Fusion-LN is our next-generation platform, built for modern testing demands. Choose this if you want the latest performance advances, future-ready connectivity, or plan to scale to more complex testing scenarios.

The Troubleshooting Analyser can also integrate with LAN-XI, our first-generation, world-class platform which integrates seamlessly with Fusion-LN.

Both platforms deliver the engineering-grade precision required for confident decision-making.



DESIGNED FOR QUICK, CONFIDENT S&V TESTING

The Troubleshooting Analyser is built for the engineers and teams responsible for diagnosing issues, checking performance, and delivering reliable products to market – often under time or resource pressure.

The Troubleshooting Analyser is especially well suited to:

- Mechanical or test engineers running validation or diagnostics on motors, pumps, compressors, appliances, or subsystems
- Product teams preparing for certification or responding to noise complaints
- Manufacturers without dedicated S&V expertise who need faster, repeatable test cycles
- R&D groups bringing S&V testing in-house for the first time

The system supports both ad hoc troubleshooting and structured, repeatable workflows. Whether you're isolating a one-off field failure or comparing design variants, it gives you the tools to measure clearly, test consistently, and make decisions with confidence.

WHY THE TROUBLESHOOTING ANALYSER DELIVERS EXCEPTIONAL VALUE

Built as a complete test solution, the Troubleshooting Analyser handles acquisition, analysis, and calibration in one workflow – so you're not stitching together tools and settings from different sources.

- More affordable price - The Troubleshooting Analyser is available at a significant introductory discount, making it easier for your team to explore the world of S&V testing and measurement in a low-risk way.
- All-in-one license - All common analysis types come in one licence, which helps you avoid the drawbacks of other S&V solutions: no surprise bills, one partner to call for support, and no confusing license management processes.
- Simple calibration and smart scaling – Support for the latest and most advanced smart sensors means scaling and sensitivity are handled automatically.
- Consistent texting – Templates preserve testing setups, speeding up testing and ensuring that results are repeatable.
- Easy integration – Building an entire workflow in the HBK ecosystem means that data flows effortlessly through the entire test and measurement process from day one, reducing setup time BK Connect's integration with third-party data also makes it easier to connect the Troubleshooting Analyser to other systems, so you avoid the cost of replacing your existing data acquisition solutions.
- One centralised, purpose-built system - Relying on custom tools leaves you vulnerable if the people who built those tools leave your team. With the Troubleshooting Analyser, it's easy to onboard new users, get technical support, and share expertise.

Ready to get started?

The Troubleshooting Analyser is designed to get teams up and running fast – with the clarity, support, and performance needed to deliver results from day one.

Speak to our team – Our local experts are here to guide you. Ask questions about Troubleshooting Analyser configurations, S&V testing and analysis, or your challenges – we're here to help.

