

THIS.

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SID1.

Product Brochure.

Smart. Industrial. Diagnostics.

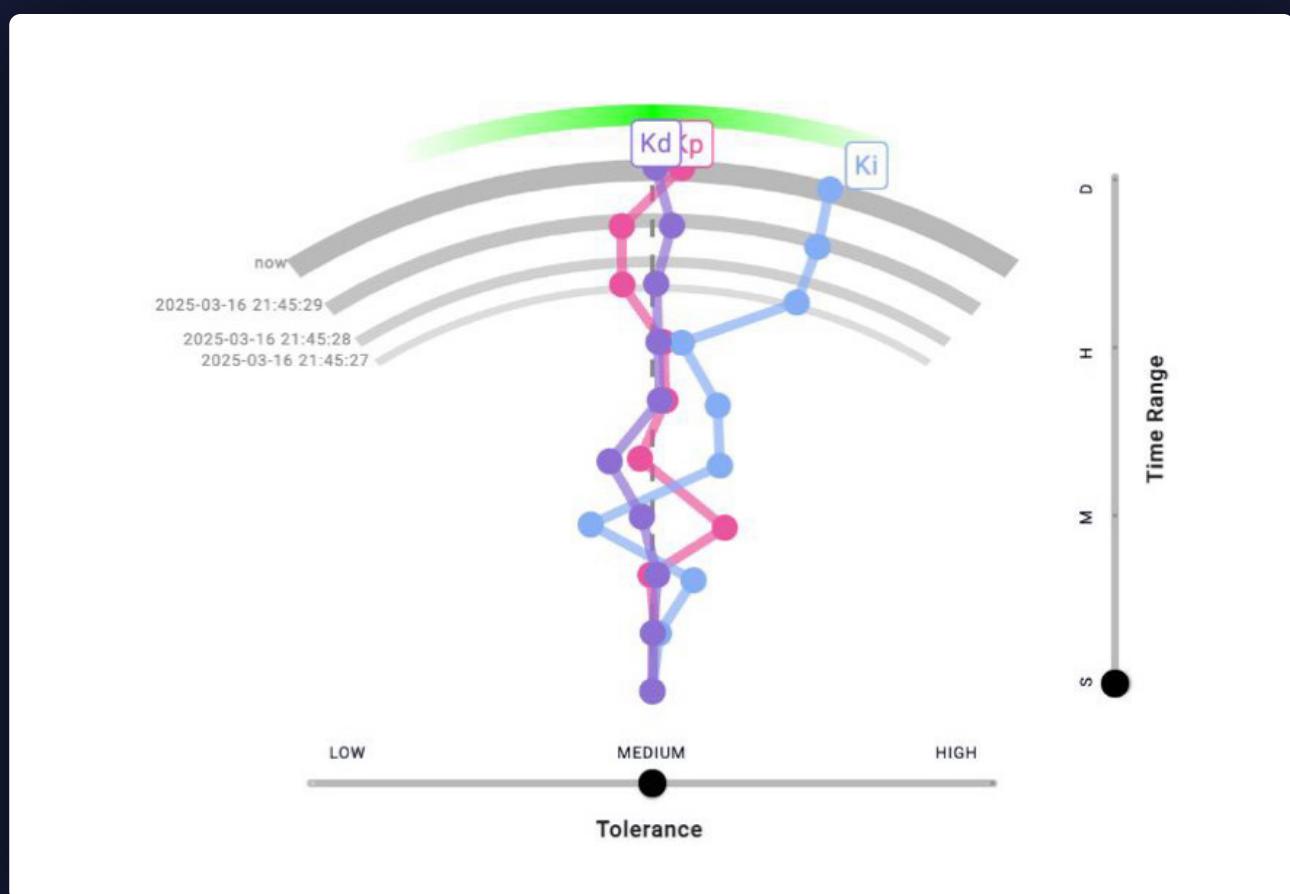


Introducing SID 1.

Smart. Industrial. Diagnostics.

Pronetiqs introduces SID 1 – a standalone **predictive maintenance software** that calculates the mechanical health of your industrial machines **without any external cloud connection**. Using inverse **control loop technology**, it provides early indications of wear & tear and mechanical faults based on a true **mathematical algorithm**.

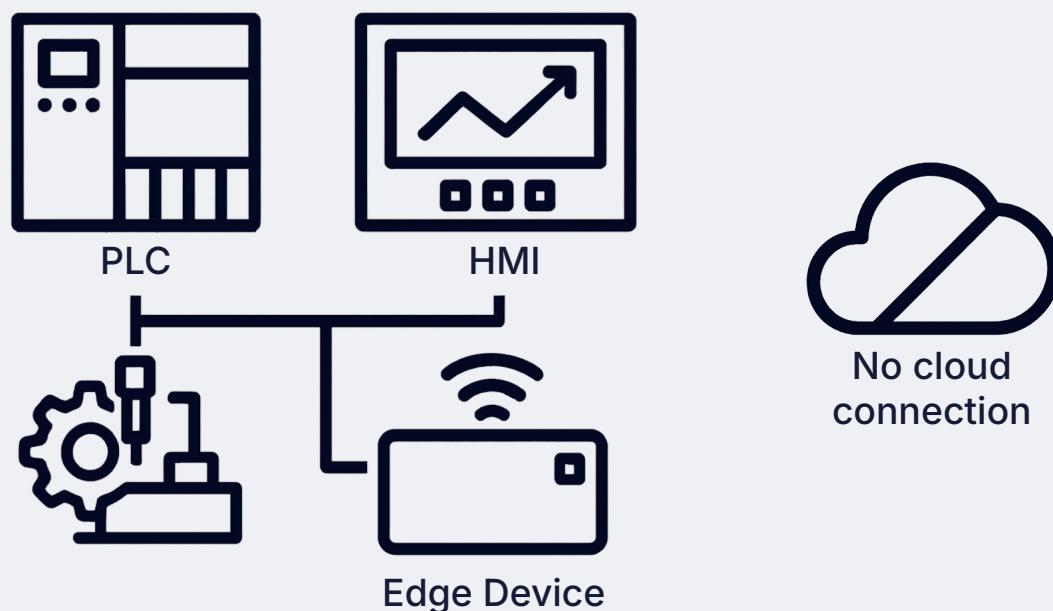
This gives machine owners time to put preventative measures in place, **avoiding higher cost of production, costly downtime or even delayed shipment of products to customers**.



Predictive Power. Zero Guesswork.

Pronetiqs developed an easy-to-use diagnostics software that enables you to take preventive actions based on mathematical certainty, which gives you unprecedented control over your downtime. As the results are based on an algorithm rather than indications or likelihoods, we can guarantee that any changes in your network are for certain. This allows for scheduled maintenance and preventive measures to be taken, so you can be home on time.

SID 1 being a self-contained software-only package operates without a cloud connection, which allows limitless scalability with NO data leaving your premises. It is compatible with any system and not bound to any processes, enabling borderless deployment across multiple sites.



- **Seamless Compatibility:** Works with any PLC, HMI, or Edge device.
- **Enhanced Security:** No cloud connection required.
- **Efficient Data Handling:** No large datasets or raw data storage.
- **Unmatched Flexibility:** Not bound to any specific processes.

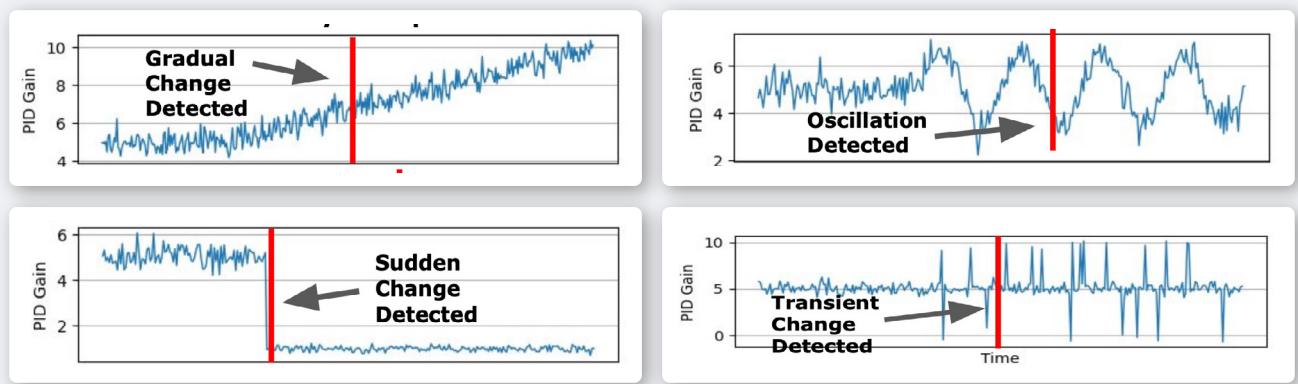
Control Loop technology explained.

SID 1 monitors machine parameters to detect changes to the control loop behaviour. Detecting a change is an indication of mechanical changes to the machine.

Machine parameters are configured using Control Loops, for instance PID's. As an example, PID stands for Proportional, Integrative and Derivative Gains which manage changes to the physical state of the machine such as movement, acceleration, pressure or temperature. SID 1 monitors these variables responsive behaviours once it is installed. As a result, changes to the response behaviour are the indication of changes to the controlled system, which in turn can be concluded to mechanical faults or wear & tear.

These anomalies can be put into four categories:

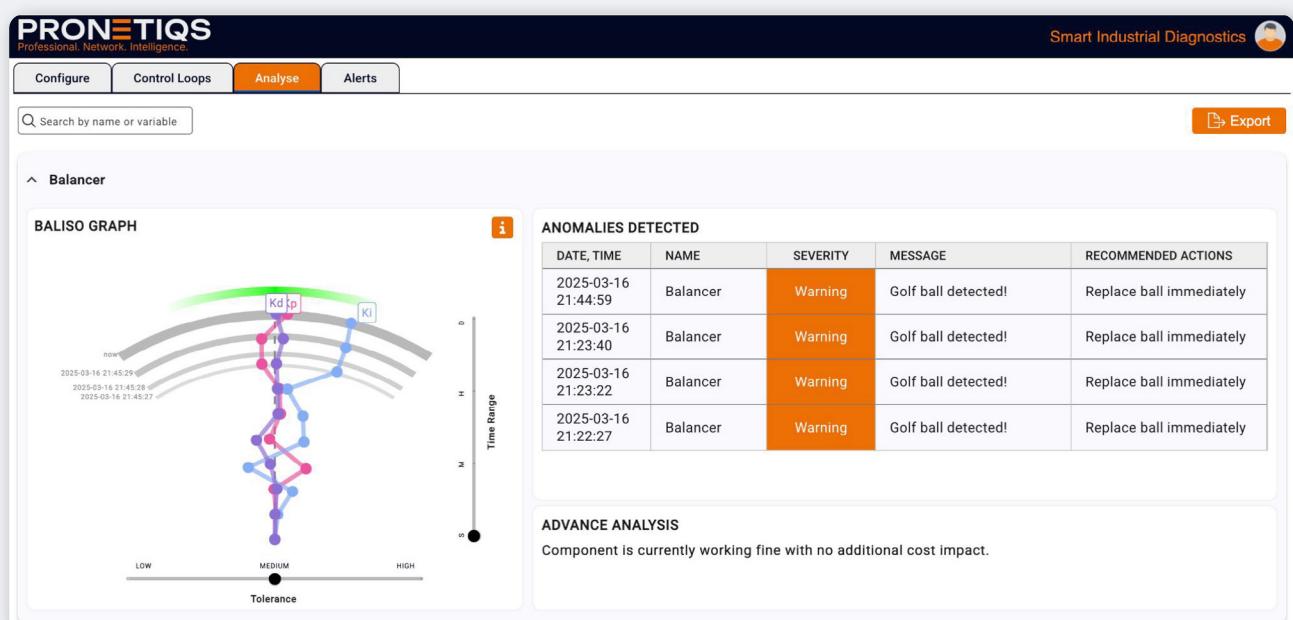
- Gradual change
- Oscillation
- Sudden changes
- Transient changes



The Baliso Graph.

We have created The Baliso Graph; a simple graph that gives you the most important insights. The Baliso Graph visualizes any changes detected within the Control Loop in an intuitive and easy-to-understand way. It displays live data points gathered and separated into the Proportional, Integral and Derivative gains.

As we know that error or fault margins per type of industry vary, the graph lets you define the parameters with which you feel most comfortable when operating your systems without overloading you with alarms.



Control your alerts.

When your gains start to deviate outside of your set tolerance, SID 1 will immediately prompt you with a warning. For each of the control loops added you will be alerted with a severity level of whether it is a "warning" or "critical" case, based on the settings that have been configured within the control loops section. Each alert comes with its timestamp and can be acknowledged once the desired action has been completed. It will also show you the monetary value of the error, making sure that immediate action will be taken to fix it!

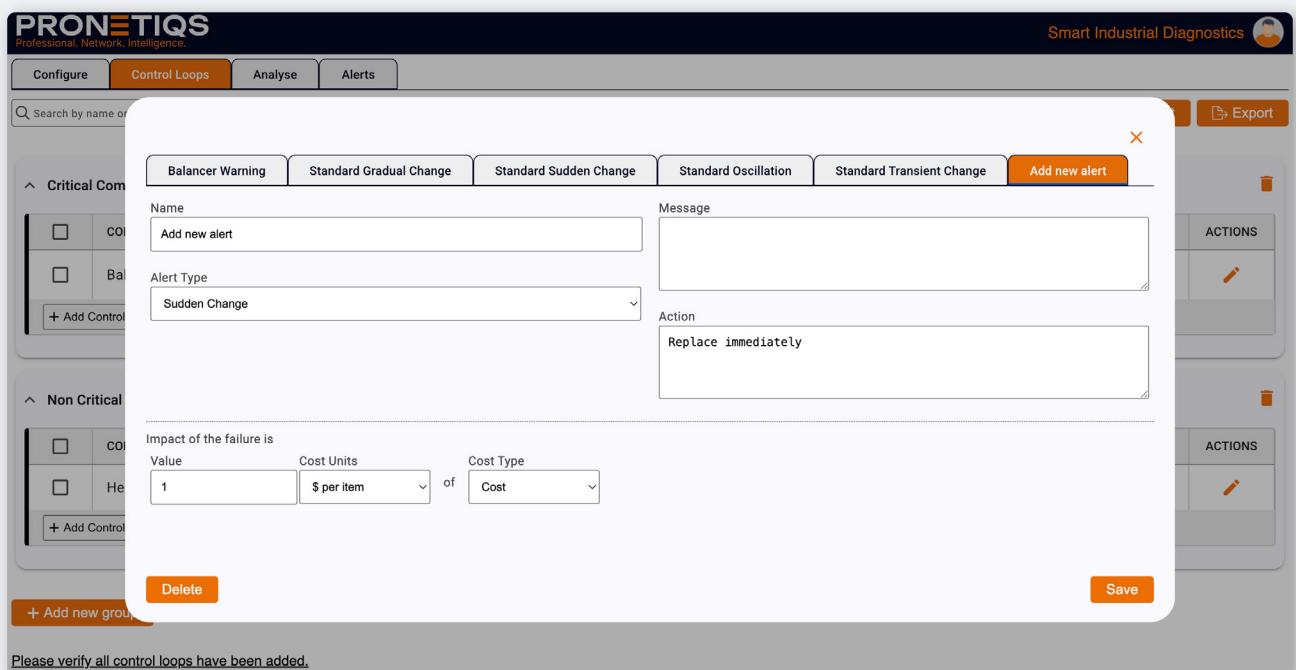
This will allow you to keep your head cool even in the worst of circumstances, giving you the power to decide upon the best course of action for your processes.



| Smart Industrial Diagnostics | | | | | | |
|------------------------------|---------------|-------------|------------------------|------------------------------|---|-----|
| Configure | Control Loops | Analyse | Alerts | Actions | | |
| Current Alerts | | Past Alerts | | | | |
| DATE, TIME | NAME | SEVERITY | MESSAGE | RECOMMENDED ACTIONS | STEPS TAKEN | ACK |
| 2025-03-24 09:56:16 | Balancer | Warning | Golf ball detected! | Replace ball immediately | <input type="text"/> Enter Text <button>Submit</button> | ✓ |
| 2025-02-25 17:44:02 | Heaterband 1 | Warning | Heater Band has failed | Replace immediately | <input type="text"/> Enter Text <button>Submit</button> | ✓ |
| 2025-02-25 17:43:32 | Heaterband 1 | Critical | Oscillation detected. | Please check this component. | <input type="text"/> Enter Text <button>Submit</button> | ✓ |

Your data. Your privacy.

SID 1 collected data does not leave your premise! There is no cloud connection to the outside world, keeping your data safe. Calculated information can be viewed via Restful API or HTTPS. Once installed, SID 1 will gather minimal production data from the process and use data points to create its predictive mathematical matrix. Once calculated it will start presenting you with its findings within minutes and will keep on doing so 24/7, 365 days a year: year after year.



PRONETIQS
Professional. Network. Intelligence.

Smart Industrial Diagnostics

Configure Control Loops Analyse Alerts

Search by name or ID

Critical Components

Non Critical Components

Impact of the failure is

Value: 1 Cost Units: \$ per item of Cost Type: Cost

Name: Add new alert

Message

Alert Type: Sudden Change

Action: Replace immediately

Actions: Delete, Save

Please verify all control loops have been added.

Who are we?

Pronetiqs is a software development and expertise powerhouse, specializing in diagnostics solutions to monitor internal control behaviours within industrial machines and processes. Its intuitive approach enables predictive maintenance, minimization of downtime, and optimization of operational efficiency.

Additionally, Pronetiqs offers comprehensive network support, consultancy services and certified trainings with more than 50 years of industry experience, providing tailored solutions to enhance connectivity, reliability, and system integration.

Would you like to discover how we can optimize your business processes? Get in touch with us today!

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