

# PCS Insight

Practical dashboards and operational insight for production and maintenance teams

## Who is this for?

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Production and maintenance teams who want:

- Clear visibility of what is actually happening on the line and at the machine.
- Fewer spreadsheets, screenshots and manual logs
- Earlier insight into developing issues — not just alarms after a stop.
- Useful production and maintenance data from existing control systems

This applies equally to:

- Manufacturing and production management
- Maintenance and reliability personnel
- Engineers responsible for uptime, performance and continuous improvement

## The problem

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In many plants:

- Valuable data exists in PLCs, HMIs and machine controllers.
- But it's locked inside control logic, screens or basic historical logs.
- Production and maintenance rely heavily on experience and intuition.
- Faults are often investigated after downtime occurs.
- Maintenance history is fragmented, making trends difficult to identify.

In other cases, data collection systems already exist - historians, SCADA or reporting tools - but were never fully adopted or developed beyond basic logging.

The problem is rarely lack of data. It's lack of context, structure and meaningful access.

## The PCS Insight solution

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PCS Insight creates a reliable, shared view of what is actually happening on the line - using data that already exists in your control systems.

Rather than pulling random tags or raw values, PCS Insight focuses on:

- Understanding how the process really works
- Interpreting machine states, transitions and conditions
- Structuring data so it reflects real assets, events and behaviour.

This approach aligns with the principles of a Unified Namespace (UNS) - a structured way of organising operational data so it reflects real assets and events.

The result is practical visibility that supports questions such as:

- What state is the machine truly in - and why?
- What changed before performance dropped or faults increased?
- Are there early indicators of abnormal or degrading behaviour?

## How it works

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- PCS connects directly to existing PLCs and control systems.
- We quickly interpret and understand existing control logic - regardless of vendor, platform or programming style.
- Existing PLC code and live behaviour are analysed directly - no assumptions, no generic templates.
- The right data points are identified based on process behaviour, not guesswork.

From there, data can be:

- Logged locally and visualised using PCS Insight dashboards, or
- Structured and delivered into existing historians, SCADA systems or reporting platforms already in use onsite.

Many plants already have data collection systems that were installed but never fully utilised.

PCS Insight can either:

- Build new visibility where none exists, or
- Unlock value from systems that are already in place but underused!

All data remains on your site unless you explicitly choose otherwise.

The connection to control systems is read-only - with no impact on machine operation.



## Typical use cases

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### Production & operations

- Run / stop / idle timelines based on true machine state.
- Downtime tracking with contextual information.
- Shift, daily and weekly production summaries.
- Line or machine comparisons.
- Simple OEE-style views (without OEE theatre)

### Maintenance & reliability

- Event and fault history with timestamps and context
- Tracking frequency and duration of recurring faults
- Maintenance intervention logging (manual or system-triggered)
- Early indicators of abnormal behaviour (cycle variation, run-time patterns, state changes)
- Supporting predictive or condition-based maintenance strategies using existing signals incrementally

The emphasis is on early insight and understanding, not retrospective reporting.

## Why PCS

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- We work directly with live PLC and control systems across multiple vendors and platforms.
- We can interrogate running systems efficiently and safely to extract meaningful data.
- We understand both the control logic and the underlying process.
- No black-box MES systems
- No vendor lock-in
- Designed with Irish SME plants in mind - and equally effective in multinational environments.
- Delivered by engineers who work on these systems day-to-day

## Typical engagement

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- Starter system focused on a single line or asset.
- Initial set of key indicators agreed based on production and maintenance needs.
- Expand as needed (additional lines, assets, metrics or reports)
- Installed locally or on customer-owned hardware.
- Scope is agreed upfront and aligned with operational value.


## Next step

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The typical first step is a short scoping discussion to understand:

- The process and equipment involved.
- Where production or maintenance currently lack visibility
- Which signals or states would provide immediate value.

From there, we start small, prove value, and build only where it makes sense.

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