



Artificial Intelligence P&ID Digitalization Software

Process Safety Office® SmartPFID™ uses Artificial Intelligence (AI) image recognition to transform and enhance legacy Piping and Instrumentation Diagram (P&ID) drawings into a digital format, allowing for their use in many digital applications.

Many P&ID drawings are non-digital simple images, with no capabilities for smart digital twin usage in plant and process management. With digitalized P&IDs, SmartPFID™ can enhance your drawings into smart data.

Main Features & Benefits

Import Legacy P&ID Drawings

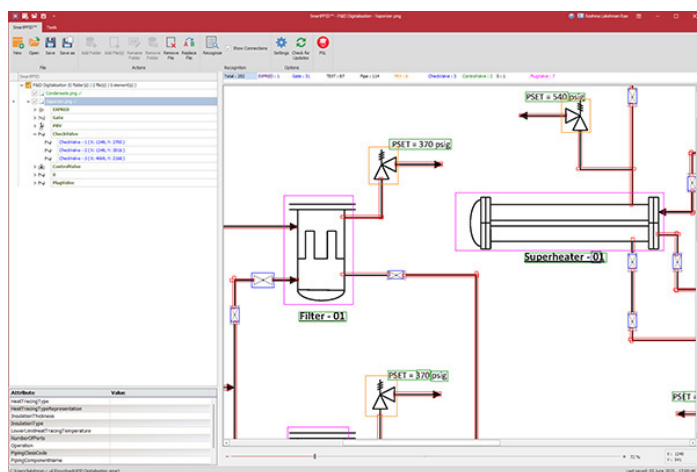
SmartPFID™ makes it easy to bring your existing process documentation into the digital age. Whether you are working with decades-old scans or more recent PDFs, our tool supports seamless import of legacy P&ID drawings — no manual rework required.

- Upload P&ID drawings in pdf or image format.
- Digitize thousands of legacy documents in a single workflow.
- Save thousands of hours in manual tasks.
- Get your P&IDs ready for smart plant integration without redrafting.

Digitalize P&ID Drawings Using AI

Once images are imported, SmartPFID™ uses advanced AI image recognition to analyze your legacy P&IDs. The tool automatically identifies and labels key process equipment, dramatically reducing manual effort and paving the way for intelligent, data-driven plant management.

- Automatically detects equipment, pipelines, and instrumentation.
- AI-driven recognition speeds up processing and reduces human error.
- Delivers consistent tagging across multiple drawings for improved accuracy.
- Eliminates the need for tedious manual markup or CAD conversion.



Embed Equipment Data

Turn static drawings into living documents by embedding key process data directly into each identified asset. SmartPFID™ supports the DEXPI standard, enabling structured, interoperable data integration for smarter operations and maintenance.

- Add equipment-specific data such as PRV set pressures, asset IDs, and more.
- Link metadata directly to tagged components within the P&ID.
- Ensure consistency and traceability across documentation.
- Leverage DEXPI-compliant formatting for easy system integration.



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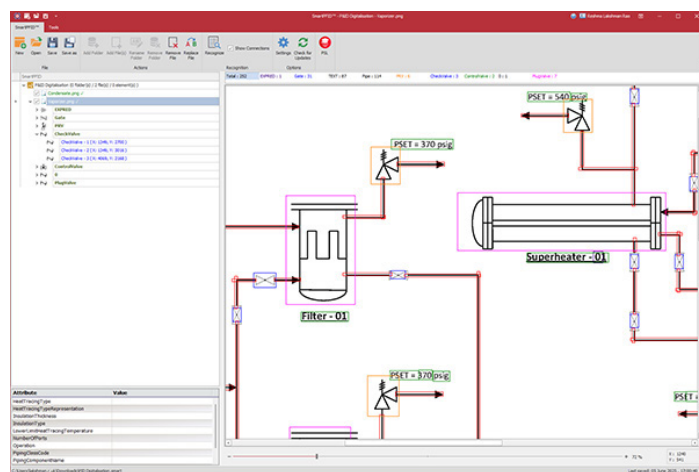
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