Bentley® AutoPLANT® P&ID V8i (SELECTseries 4)
Create Intelligent Process and Instrumentation Diagrams to Save Time and Improve Accuracy

AutoPLANT® P&ID V8i provides an indispensable tool for creating intelligent process and instrumentation diagrams. Using AutoCAD as the drafting engine—linked dynamically to an external database—engineers can quickly and accurately build a project repository for tagged components and related properties.

Provides Scalability, Improved Accuracy and Time Savings
The scalable nature of AutoPLANT P&ID V8i means that it can be deployed quickly on large, mid-sized or small projects by EPCs or plant owner-operators. Improve the accuracy of deliverables created “downstream” from the P&ID by sharing the project tags and data created. Users can save time and man-hours by leveraging the automated drafting routines and by automatically generating project lists and schedules from the data created.

Shared Project Data Facilitates Information Exchange
AutoPLANT P&ID V8i works in a shared project environment by connecting to the plant project database. This shared project environment facilitates information sharing between multiple users and disciplines. Applications such as Bentley Data Manager, Bentley Instrumentation and Wiring, Bentley Datasheets, Bentley Hookups, AutoPLANT Piping, AutoPLANT Equipment, and Bentley Vision share project data with AutoPLANT P&ID V8i via the plant project database.

Advanced Drafting Routines Reduce Drawing Creation Time
Advanced parametric drafting routines within AutoPLANT P&ID V8i greatly reduce drawing creation times saving project man-hours. The Symbol Manager, toolbars, dynamically updated dialogs and pick-lists make the drafting of P&IDs quick and easy. Advanced drafting utilities are included in AutoPLANT P&ID V8i including automatic line break/mend, line tag updates, valve swapping, reducer orientation, nozzle placement and attribute display controls.

Symbols and Assemblies
AutoPLANT P&ID V8i includes over 400 symbols that conform to ISA and DIN standards along with a complete set of piping and instrument line types. Existing symbols can be customized and new symbols created to suit all project requirements. Intelligent assemblies can be created from groups of commonly used components and shared between projects.

Easily Share and Archive Project Data
AutoPLANT P&IDs can be exchanged between projects in the Exchange Drawing format. The same functionality can also be used to create intelligent archive copies of P&IDs at project milestones. Using the Bentley i-model Composer, distributed review, comment and redlining of AutoPLANT P&IDs is made easy.

Consistency Checker Saves Time
The Consistency Checker within AutoPLANT P&ID V8i provides interactive checking of connectivity and consistency such as branch line size vs. header line size and valve size vs. pipe run size. The Consistency Checker will highlight and/or report perceived inconsistencies as well as zooming into flagged inconsistencies on the drawing.

Automatic Tag Register
By communicating dynamically with the AutoPLANT plant project database, AutoPLANT P&ID V8i automatically maintains a register of tagged project components. No manual synchronization with the database is required. AutoPLANT P&ID V8i will automatically check for tag uniqueness (if required) and automated tag incrementing is possible to enforce project conventions.

Process Line – Pipe Run Management
AutoPLANT P&ID V8i employs the piping design hierarchy of Process Lines comprising of one or more pipe runs. Pipe runs have a single size, set of specifications, source and destination. Process lines are made up of one or more pipe runs and have nominal values for size and spec. The Process Line Manager tool manages process lines and pipe runs on the P&ID to more easily manage the design of entire runs.
AutoPLANT P&ID V8i At-A-Glance

Parametric and Automated Drafting Routines
- Offers standard AutoCAD commands (move, stretch, copy, etc.)
- Enables faster drawing creation
- Includes easy-to-use Symbol Manager, toolbars, dynamically updated dialogs and pick-lists, and more
- Offers automatic process line break/mend, line tag updates, valve swapping, reducer orientation, nozzle placement, and attribute display controls, and more
- Includes grouping commands to quickly edit, move, and delete components and associated attributes
- Allows use of shared project assemblies to create groups of components and the associated project data

Symbol Manager
- Drag-and-drop component placement
- Right-click, context-sensitive menus for creating custom component symbols
- User-defined symbol groupings to quickly locate most-used symbols
- Convert "dumb" graphical objects into intelligent tagged project components

Component Data Entry Dialogs
- Populate the AutoPLANT project database by selecting the P&ID components
- Customize to suit individual project needs and set user access control
- Associate manufacturers documents such as installation and operation manuals

Software:
- AutoCAD 2012 (32 or 64 bit)
- Microsoft Office 2010 Professional (32 or 64 bit)
- Microsoft SQL Server 2008 R2 Enterprise Edition

Hardware:
- Intel Core i7, Intel Xeon, AMD Phenom II or AMD Opteron
- Windows 7 (32 or 64 bit)
- Memory (RAM): 4GB for 32-bit Windows 7, 8GB (minimum) for 64-bit Windows 7
- Graphics Card: 1GB Microsoft Direct3D capable workstation-class graphics card
- Disk Space: 2GB available

Integration
- Components placed on the P&ID are instantly available to other disciplines via the integration with the plant project database
- Select pipes and equipment to from the P&ID model in AutoPLANT Piping V8i
- Create datasheets via Bentley Data Manager V8i for components placed on the P&ID
- Model loop connections and generate instrumentation and electrical deliverables, and place on the P&ID using Bentley Instrumentation and Wiring V8i, or Bentley Promis® i-model V8i
- Exchange models with third-party applications and review read-only, open design data via the Bentley i-model format
- Use Bentley Navigator V8i for design review
- Manage your project design data and drawings with ProjectWise® Integration Server V8i

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