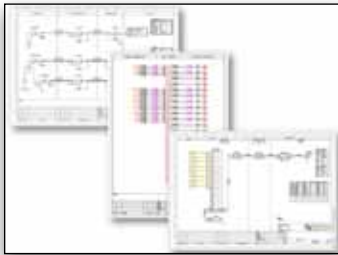




Bentley® Instrumentation & Wiring

An Intuitive, Powerful Tool for Process Plant Control System Design

Bentley® Instrumentation and Wiring is the ideal tool for creating project instrumentation loop diagrams, panel termination diagrams, motor schematics, single-line diagrams and foundation fieldbus segment diagrams.



Generates drawings in multiple types & formats, including DGN, DWG, DXF & PDF.

Intuitive Drag-and-Drop Graphical Interface

By combining an intuitive drag-and-drop graphical interface with a fully integrated relational database, users can efficiently manage all project control system data. Bentley Instrumentation & Wiring utilizes an independent graphics engine to generate drawings in a DGN, DWG, or DXF format and the built-in reporting engine quickly generates instrument, cable, termination, I/O, motor and other essential project specific reports. Developed by experienced instrumentation engineers, Bentley Instrumentation & Wiring is the ideal tool for EPC I&C engineers and designers as well as owner operators.

Fast, Accurate, User-Friendly Data Entry

The standard interface of Instrumentation and Wiring is user-friendly, with menu-driven, context-sensitive online help features. SQL based views allow users to create pick lists for any cell in a view reducing data entry errors and ensuring consistency. The filter, sort, find and replace commands provide quick access to project data, while the property sheet allows users to quickly update multiple records.

Intuitive Connection Interface

The Layout Designer interface provides an intuitive drag, drop, and right-click interface for modeling all project cable and wiring connections. Components such as instruments, motors, cables and panels can be dragged onto layouts and the connections modeled via right-click menu options. Layouts may show all instruments in a project or may be broken down into individual loops, areas, or processes. The same components may also be displayed on multiple layouts. Layouts can be printed to a PDF to create simple block cable diagrams, if desired.

Multiple Reporting Capabilities

Bentley Instrumentation & Wiring comes with many pre-defined reports. Including instrument lists, cables schedules, panel lists, termination and wiring list, motor and I/O lists. All the reports within Instrumentation & Wiring are generated using the built-in Microsoft Access reporting engine. Users can easily edit these to meet project format requirements, or can simply add new reports.

Multiple Drawing Types and File Formats

The software's built-in drawing engine allows users to generate drawings for instrument loops, fieldbus segments, panels and motors. These drawings can be automatic quick connection drawings in PDF format, or CAD files utilizing the AutoGen, Composite and Template drawing creation functionality within Instrumentation and Wiring. All the CAD drawings can be produced in DGN, DWG or DXF file formats. An AutoCAD license is not required to generate DWG drawings.

Building from Standards Libraries

Users can store recurring designs as project standards. A common loop configuration that is repeated many times on a project can be designed and then saved as a project standard. The use of project standards applies to loops, segments, motors and panels as well as individual terminal strips and devices. Standards are project specific, but users can select a standard created in a different project.

Hook Ups Are Easy to Create

Process and pneumatic instrument hook ups – or installation details – can be created from Bentley Instrumentation and Wiring via the Hook Ups module. Hook Up sheets are created in Microsoft Excel and from these bills of materials for installation can be created for individual or multiple hook ups. The Hook Ups module is now an integral part of Instrumentation and Wiring and not a separate licensed module.

Datasheets and Specification Sheets Are Easy to Create

Datasheets and specification sheets can be created from Instrumentation and Wiring using the Bentley Datasheets module. Datasheets are created in Microsoft Excel format and synchronization with the project database is automatic to ensure data consistency.



Features Layout Designer, an intuitive drag, drop & right-click interface for modelling connections.



Provides pre-defined, user customizable data entry grids out-of-the-box.

Recommended Configuration

Processor:

Intel® Core™ i7, Intel® Xeon® or AMD Phenom™, AMD Phenom™ II

Operating System:

Microsoft Windows 7 (32 or 64 bit) Enterprise, Ultimate or Professional Edition

Memory (RAM):

4 GB for 32-bit Windows 7, 8 GB (minimum) for 64-bit Windows 7

Graphics Card:

512 MB Microsoft Direct3D-capable workstation-class graphics card (minimum), 1 GB Microsoft Direct3D-capable workstation-class graphics card (recommended)

Disk Space:

2 GB available

Software:

- AutoCAD 2011 (32 or 64 bit)
- Microsoft Office 2010 Professional (32 or 64 bit)
- Microsoft SQL Server 2008 R2 Enterprise Edition

Find out about Bentley at: www.bentley.com

Contact Bentley

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Outside the US +1 610-458-5000

Global Office Listings

www.bentley.com/contact

Bentley Instrumentation & Wiring At-A-Glance

Integrated Database

- Part of the Bentley® Process & Instrumentation V8i Workgroup
- Seamless data flow between functional and physical design solutions
- Access to all instrumentation and electrical data
- Used by all electrical and instrumentation designers and engineers
- Create plant control system design deliverables
- Ensures consistent data
- Provides instant updates
- No import or export required
- Ensures data up-to-date
- Automate tasks with Microsoft Access macros
- Create catalog tables for parts

User-Friendly Interface

- Uses standard Windows-based interface
- Works with XP or Vista
- Supports Microsoft Access, SQL Server Express, SQL Server and Oracle
- Links to external databases from the project environment via ODBC
- Provides field level user access control
- Features right-click data manipulation
- Sort, filter, find and replace data
- Add, edit and delete tags
- Cut, copy and paste data
- Performs multiple tag updates and drag, drop and right click graphical interface for modelling connections

Customizable Views

- Use out-of-the-box multi-discipline customizable views
- Create new project specific views
- Create SQL-based catalog table pick lists
- Reference data from external sources

- Manipulate all project data
- Uses Microsoft Access query engine
- Supports Office 2003 & 2007

Quick Report Generation

- Use out-of-the-box multi-discipline reports
- Customize all out-of-the-box reports
- Create new project specific reports
- Reference data from external sources
- Uses Microsoft Access reporting engine
- Supports Office 2003 and 2007

Project Standards

- Create loop, segment, motor, panel and I/O panel standards
- Create standards for terminal strips and devices
- Batch create loops from standards
- Use standards from legacy projects
- Share standard between multiple projects
- Save design time by using standards

Multiple Deliverable Types and Formats

- Loop, segment, panel and I/O card termination drawings
- Motor schematic, termination and single line drawings
- DGN, DWG, DXF, PDF drawing deliverables
- Automatic connection drawings
- AutoGen CAD drawings
- Template based CAD drawings
- Composite CAD drawings (part AutoGen, part Template)
- Reports in PDF or SNP format
- Datasheets and Hook ups in XLS format
- AutoCAD license not required
- AutoCAD 2006 to 2009 support
- Check in/out of ProjectWise® V8i

Import And Export Data

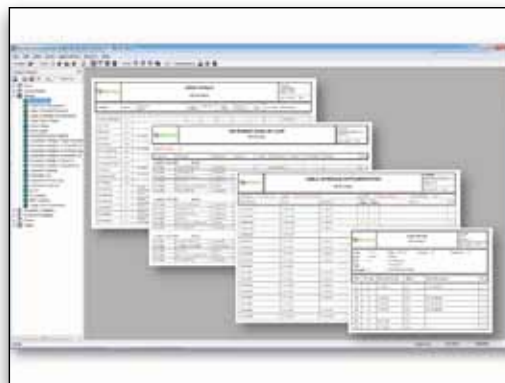
- Import legacy data at project startup
- Import and export data to and from third party applications
- Supports MDB, XLS, TXT, DBF & ODBC data sources
- Export via user-defined views to control the data exported
- Import data from FEED solutions

Datasheets

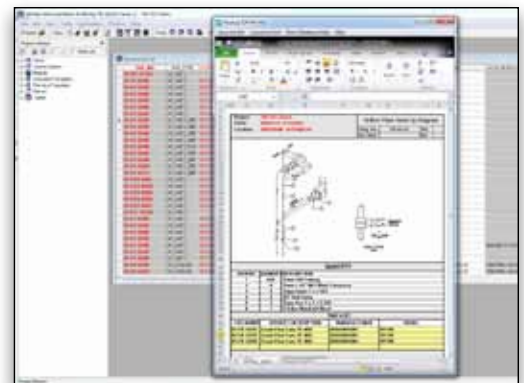
- Integrates with Bentley® Datasheets V8i
- Create process, mechanical, instrument and electrical datasheets
- Used by all project disciplines
- Microsoft Excel format
- Supports Office 2003 and 2007
- Features bulk datasheet creation
- Synchs automatically with project database
- Update via database or datasheet
- Provide third party updates via Excel
- Synchronizes third-party updates synchronized with database
- User control over data synchronization
- Offers single or multi-tag datasheets
- Changes highlighted on datasheet
- Check in/out of ProjectWise V8i

Hookups

- Integrates with Bentley® Hookups V8i
- Creates process or pneumatic instrument hookups
- Uses Microsoft Excel format
- Supports Office 2003 and 2007
- Synchs automatically with project databases
- Generate installation bill of materials
- Check in/out of ProjectWise V8i



Provides multiple, customizable report formats out of the box.



Creates instrument installation hook ups.