



Instrument Designer

IDO Designer Feature Summary:

The *Instrumentation Design Office* drawing management application *Instrument Designer* handles automated generation of CAD drawings from the multi-user project/plant database. It manages the process of CAD drawing creation, drawing revision update and the transferring of data to drawings and parametric creation of termination (wiring) drawings. *IDO Designer* also contains a Hookup module enabling fast installation detail generation and accurate Bill of Materials. Here is a feature summary:

Drawing List Management:

- Add/Edit/Update/Delete/Open drawings from the Drawing List (register) manually
- Add loop drawings automatically from *Instrument Engineer's* Loop List
- Add termination drawings automatically from *Wiring Manager's* Equipment List
- Manage drawing revisions (update all selected in "batch" mode)
- Create new revision using next revision number or Update current revisions with new information
- Updates all drawing data:
 - Drawing title block from Drawing List (titles, drawing no, plant area etc)
 - Revisions from Revisions history
 - Engineering Data from any *Instrumentation Design Office* database field
- Link drawing text fields to any user defined database field using IDO Datalinks or SQL queries
- Create/Update and print selected drawings in batch mode
- Print selected drawings in batch mode

Loop Diagram Generation:

- Create multiple drawings based on user templates (fully user definable)
- Edit drawings and update existing drawings without templates
- Updates cable/termination data from *IDO Wiring Manager* (e.g. Cable, Terminal & Wire No.'s etc.)
- Updates Instrument data from *IDO Instrument Engineer* (e.g. P&ID No, Manufacturer, Model No., Range, DCS/PLC I/O information etc.)
- Updates title block information (titles, revisions etc) and stacks revision history

Termination Diagram Generation:

Creates drawings based on:

- Templates (typically termination schedules)
 - Parametrics (typically termination diagrams) – user defined parameters - fully automated drawing creation
 - Updates cable/termination data from *IDO Wiring Manager* (e.g. Cable, Terminal & Wires No.'s)
 - Supports cross-patch wiring and links between terminals
 - Supports automatic continuation over multiple drawings (e.g. Marshalling Racks etc)
 - Supports automatic reference drawing numbers to loop diagrams for field cables & To/From equipment & drawing numbers for termination drawings
 - Updates title block information (titles, revisions etc) and stacks revision history
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