



Instrument Manager

World's Richest Set of Design Tools for Managing Instrumentation



Comprehensive,
easy to use.



Instrumentation design with an SQL database

EDS, the **Elecdes Design Suite**, is a suite of electrical design software applications that has functionally without peer.

EDS contains many design tools, evolved over 30 years with the feedback of thousands of electrical professionals. These tools are suited to and fully encompass the needs of each electrical sub-discipline.

The three main components of EDS, are Elecdes, **Instrument Manager** and Paneldes,

A simple, yet powerful, instrumentation solution

Instrument Manager is an Instrument design and documentation system, which can be fully integrated with Elecdes and Paneldes 3D modelling and cable routing.

Instrument Manager is used by instrumentation or control system design engineers to automatically produce instrumentation documents such as Data Sheets, Loop Diagrams, Hook up Diagrams, Wiring /Terminal Strip Diagrams, Instrument Index, Bill of Materials, Cable Schedule, I/O List, Interconnection Reports and many other deliverables. This automated production of deliverables greatly increases your team's **efficiency** and **accuracy** and reduces your project costs.

Instrument Manager uses a familiar drag and drop method to link components and electrical connections and also includes copy and paste, search and replace and many other "spreadsheet style" tools.

Instrument Manager database options include MS-Access and SQL Server. Should additional processing of the instrumentation data be required, your IT department have unlimited access to the data "behind the scenes".

Exports and Imports are available to most common formats to easily incorporate vendor and customer data. External "component" databases (e.g. a P&ID database) can be live-linked with a minimum of effort allowing Instrument Manager to optionally absorb and modify data from your P&ID or external system.

Linking to other SQL based applications is limitless and under your control. This automated transferal of data greatly increases your team's **efficiency** and **accuracy** which provides significant project cost reduction.

Instrument Manager can be integrated with Cable Scheduler allowing your team the benefit of a single database for their I&E project, which greatly increases your **accuracy**, lowers your re-work and reduces your project costs.

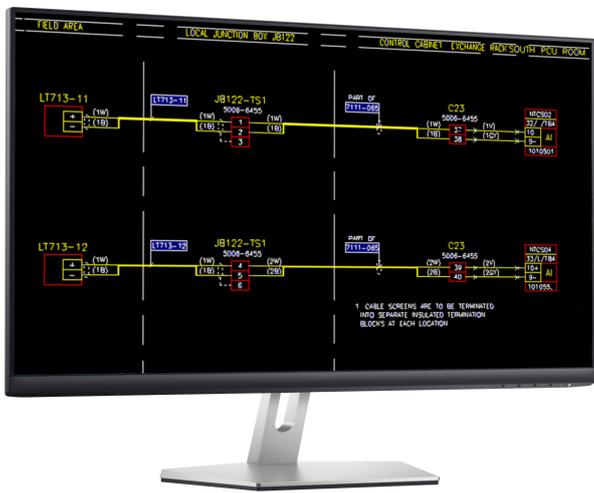
Instrument Manager is a simple (and cost effective), yet powerful, alternative to your current instrumentation solution.

Deliverables

Instrument Manager is used to create the following deliverables:

- Loop Diagrams.
- Motor Elementaries.
- Datasheets.
- Test Sheets.
- Hookup Diagrams.
- Wiring Diagrams /Terminal Strip Diagrams.
- Instrument Index.
- Bill of Materials and Quantity Summary Reports.
- Wiring Reports.
- Cable Schedule and Core Schedule.
- Diagrams List.
- I/O List.





EDS Setup

- Manage Client Specific libraries.
- Assign admin privileges to users.
- Copy, save and Share EDS settings to other users.
- Setup catalogs in Access, SQL and DBF.
- Manage list of manufacturers to be used.
- Selection of warnings to be displayed.

Technical Support

All SCADA Systems offices can provide a high degree of Technical Support for the EDS products. Phone support is available globally 24 hours per day in Asia, Europe and the Americas.

Extended Maintenance and Support contracts (EMS)

SCADA Systems offer support contracts inclusive of all software upgrades, free email/ phone support, and development request priority. These contracts are offered on an annual subscription basis.

Languages/International

EDS and all of its documentation is now supplied in English, French, Spanish.

Hardware and Software required

Windows 8 thru to Windows 11, PC with Intel I5/I7, 16GB ram/1 TB HDD or similar. For cable routing and instrumentation users, 32GB+ ram, SSD and high speed networking is recommended.

Software Compatibility

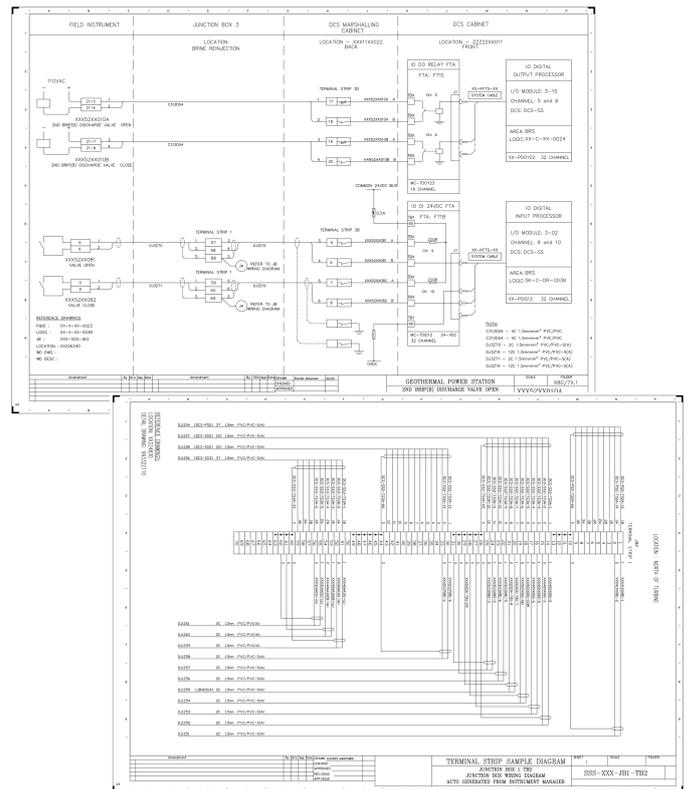
We support compatible O/S, CAD and Office tools from current versions and for older versions (up to 7 years old) for: AutoCAD, BricsCAD, GStarCAD, Microsoft Excel & Access, DBASE, SQL Server. We support a Windows compatible network.

Licensing

EDS software can be locally or network licensed.

Development Details

EDS development is shared between SCADA Systems Offices. The development team includes programmers, engineers and designers who, between them, share 100s of man-years experience in the field of electrical engineering. The software is currently written in C, C++ and C#. Over 3 million lines of programming code form the programs of EDS.



Above are example Loop diagram and Terminal Strip diagram output by Instrument Manager.

TECHNICALLY SPEAKING...

Instrument Manager features

- Instrumentation Detailing and Design.
- SQL Server or MS-Access.
- P&ID SQL database links—AutoCAD P&ID/Plant and CADWorx P&ID.
- Import connections from an existing Cable Schedule.
- Supply upstream compatible Data to Paneldes 3D and Cable Routing.
- Mass, project wide, editing of components.
- User-defined tables and views.
- Tree view allows user to look at associated and linked components.
- Deliverables (e.g. Loop drawing) generated from templates/typical.
- 2 way data link with Excel Datasheets. Edit or Output any Datasheet.
- Import instruments and other component datasheets in IM.
- Diagrams format is DWG, datasheets format is XLSX.
- Preview of instrument Loop connection.
- Floating list window, Connection preview window.
- Navigate to related components, linked diagrams and templates.
- Synchronise with Elecdes drawings.
- Name sequence for components.
- Export data to Excel, dbf and text file.
- Report with SQL Server Report Services (SSRS).
- SSRS Reports made accessible to other users, via a browser.
- View Reporting inside IM when using SQL.
- Add new "user component type" to the project.
- Create a custom map file allowing import of data from an external Database or Excel.
- Generate Terminal Strip Diagrams, Hook-up Diagrams and Loop Diagrams without a CAD engine installed.
- View output drawings in PDF.
- Raise issues (communicates between project users) with highlights and comments.
- Save and load list filtering of components.
- User interface offers programmable highlighting.
- Cloud version available.

Ebase

- Manage projects and project drawings (and DSN).
- Selection of type of reports to be generated.
- Auto cross-referencing and Auto-wiring functions.
- Auto Find and Replace function.
- Export DWGs to PDF.
- DWG to DGN converter.
- Project wide Global Edit of drawings and components.
- Export to PDF with hyperlinks for component references.

Block Manager:

- Bulk operations (many drawings, many symbols in batch).
- Change properties of attributes.
- Add new attributes to a block.
- Swap blocks in N number of drawings at a time.
- Redefine blocks in N number of drawings at a time.
- Replace style of one symbol with another in N number of drawings.