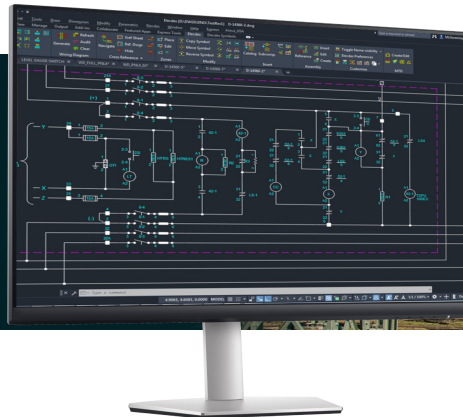




Elecdes -2D Electrical

World's Richest Set of Design Tools for Producing Electrical Drawings/Reports

Comprehensive,
easy to use.



Automated diagrams, circuit checks and reports.

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.

Comprehensive schematic and wiring diagram tools that are easy to use.

Elecdes is an extremely powerful tool for producing 2D electrical and control diagrams. Elecdes is used by Power Distribution, Switchgear and Control Systems designers. Elecdes consists of highly productive design tools and also a set of comprehensive libraries to be used with CAD and Database systems.

Elecdes greatly increases *efficiency* by using its in-built tools to automate repetitive tasks forced upon the designer, such as automatic circuit cross referencing, project wide global attribute editing and automated wiring diagram construction. Labor costs in your design projects can be significantly reduced by these efficiency gains.

Elecdes increases *accuracy* by checking for circuit errors such as inconsistent cross sheet continuations, open circuits, short circuits and duplicated tag use. Accuracy improvements reduce "sheet flipping" checks and the "rework" associated with errors. This leads to obvious cost reduction in your design projects.

"We can produce an electrical scheme in less than half the time required historically..." (the originals were produced using raw AutoCAD and a symbol library). "Much of the reduction was achieved in the automated generation of terminal strips and wiring diagrams..." **Engineering Manager, Texas, USA."**

Elecdes has an open structure which allows flexible design practices and your choice of standards. Elecdes can be simply customized to work your way. The Elecdes database interface "Ebase" allows your designers to work on the diagrams as your engineers work on specifications and tagging for those diagrams, – true concurrent engineering.

Elecdes connection automation is the most sophisticated on the market with fully automated terminal strip diagrams, wiring diagrams and tabular connection reports.

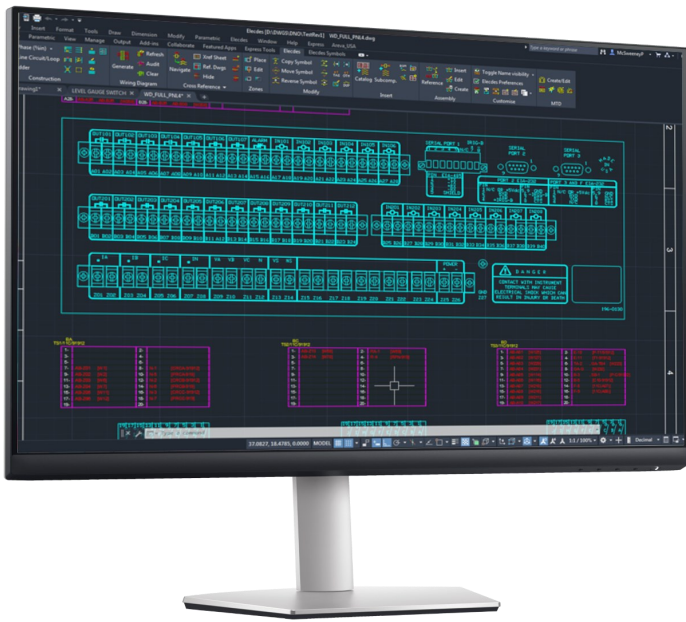
"We have completed several projects with Elecdes and we are very pleased with how easy it is to use." **Engineering Manager, Manufacturing, St Louis, USA.**

Deliverables

Elecdes is used to create the following deliverables:

- Schematics / Elementaries.
- Single Line Diagrams.
- Cable Block Diagrams.
- Loop diagrams.
- Wiring Diagrams /Terminal Strip Diagrams.
- 2D Panel Layout Diagrams.
- Bill of Materials and Quantity Summary Reports.
- Wiring Reports.
- Cable Schedule and Core Schedule.
- Drawing Index & I/O Schedule.





TECHNICALLY SPEAKING...

ElecDES Features

- Over 15000 electrical symbols to ISA/IEC/IEEE/AS1102 specifications.
- Database/Catalog driven component specification and global editing.
- Automated circuit construction for schematics, wiring and loop diagrams.
- Supply upstream compatible Data to PanelDES 3D and Cable Routing.
- Over 1M manufacturers' parts in ElecDES supplied catalogs.
- Integrated database for automated reporting.
- Project wide Global Editor inc. 2 way database – drawing link.
- Metric and Imperial versions.
- Multi line breaking and repair.
- Composite Symbol librarian, allowing customized symbol libraries.
- IEC and ANSI naming conventions are provided.
- Automated wire and rung numbering and connect dot placement.
- Automated user programmable "incremental" tag names.
- 2 line and 3 phase drawing macros.
- Ladder diagram construction macros.
- PLC I/O card construction macros.
- Easy saving of commonly used sub-circuits as "assemblies".
- Fully automated Terminal strip and wiring diagram generation.
- PLC card builder. Library of 1000's of cards, multiple manufacturers.
- On line relay contact/coil cross referencing.
- On line tag name duplication cross referencing.
- Multi sheet navigation tools to easily find and view components.
- In diagram BOM and cable list tables.
- On Line Documentation and "Movie" based tutorials.
- Full Web based training available.
- Batch printer.
- Soft-snaps to existing wires.
- Fast intelligent Move / Copy / Erase / Array commands for electrical components.
- Real-time resizable icon menus.
- Export to PDF with hyperlinks for component references.
- Manual update of drawings.
- User control over drawing updates and edits.
- All tools and libraries are user customisable (Report format, Symbols, attributes, wiring diagrams, fonts, colours, layers, Grids and Zones, Ribbon Menu).

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.

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.

Protogen and Database Editor

- Link with SQL, Excel and Access.
- Drag and Drop DBF file on to EXCEL.
- Compute values with EXCEL like functions.
- Create typical with templates.
- Generate clone drawings from typical/template + data tables.
- Get reports from Protogen drawings if using ElecDES symbols.
- Sub-templates used for different parts of circuit to be configured in a drawing.

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, 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.