

# TOPDOC® for SoftPLC

## Catalog Number: TDZ-FNW

### General Description

TOPDOC® is an advanced PLC program development and documentation software product. TOPDOC for SoftPLC provides a complete set of tools for SoftPLC based systems:

- Ladder logic program development
- Ladder logic documentation
- Online monitoring/troubleshooting

TOPDOC makes SoftPLC programming and continued maintenance faster and easier. The user interface design minimizes keystrokes, provides an optional pull-down menu system and complete context sensitive help for beginning or infrequent users.

TOPDOC is designed to maximize productivity with special features such as the multi-file offline editor, data table watch windows, symbolic programming, and more.

### Standard Features

- Powerful offline & online multi-file offline ladder logic and data table editors
- Program upload/download and read/write to SoftPLC flash
- PLC address and program documentation
- Comprehensive cross-referencing
- Complete set of reports
- Intelligent Difference Detector (program comparison utility)
- Integrated PID auto-tuning feature with template display
- Program and documentation conversions from A-B software formats
- Integrated offline emulation and system simulation

### A Complete Set of Tools

#### Ladder Logic Editing

TOPDOC provides online and offline editing with an extensive range of features, as well as special functions unique to either mode. You can create programs offline, then download to your SoftPLC over ethernet, serial or DH+ . You can also work directly online connected to the SoftPLC to create, monitor, and modify programs.

Instruction/Data Entry are easy:

- Enter/edit logic and data with simple hot-key commands or the menu system
- Program with addresses or tagnames (symbolic programming)
- "Scroll Recall" feature retrieves the last 14 entries for easy editing and reuse - saves lots of time!
- Block copy, paste with global search/replace make re-using similar logic fast and easy

TOPDOC also automatically learns about any user loadable functions (TLI's) in SoftPLC, and adds them to the instruction menus.

A: OUTSIDE AIR

LES

A < B

A: N007:010

1609

B: 1936

FAN\_ENABLE

B003

N010:028

10

02

**SoftPLC**  
CORPORATION

### ' **Monitoring/Troubleshooting**

A number of features are available for SoftPLC system maintenance.

- Search by address, instruction, tagname, or instruction/address combination by direct reference or with wildcard specifications
- On-screen cross reference lets you easily find the location and use of every data table element, and quickly zoom from the cross reference display to any of the rungs listed
- Create lists and display non-sequential rungs even from different subroutines, save the lists for later re-use too
- Data table "watch windows" can be displayed with the ladder or in the data table editor, create from the addresses in an instruction or enter your own list of addresses, save the lists for later re-use too
- I/O forcing from ladder, force table, or data table editors
- Contact histogram monitors and records changes of up to 16 bits at a time
- Status file monitoring, fault analysis, and other features make it easy to determine causes of problems

### ' **Documentation/Reports**

Rung comments can be up to 32KB each. Address descriptions which include a 13 character tagname and a 5 line x 13 character description are easily edited from the ladder logic, or using TOPDOC's database editor. Since the documentation is stored in .dbf format, you can edit with standard database or spreadsheet programs, as well.

A complete set of reports is included:

- Ladder Diagram Report
- Address Usage Report
- Detailed Cross Reference Report
- Data Table Report
- Database Report

### ' **Utility Functions**

TOPDOC includes a number of utilities to simplify editing and troubleshooting:

- Difference Detector, a SoftPLC Corp. invention, intelligently compares two versions of a program to quickly locate rung or instruction insertions or deletions, as well as data table changes.
- Conversion utilities allow A-B PLC users to easily convert PLC-5, SLC-500, or PLC-2 logic/documentation
- Program verify checks your logic before download for potential runtime errors

### ' **SoftWIRES Emulation/Simulation**

Included with TOPDOC, SoftWIRES allows you to run your logic offline for testing. Features include:

- Continuous logic scanning or single-stepping through the logic one rung at a time
- "Break points" based on logic, events, or operator control
- Open loop emulation for quick checks
- Closed loop simulation using a 2<sup>nd</sup> program that acts as the process and provides inputs to the simulated PLC
- 4 communication channels to test HMI/SCADA along with the PLC

### **Ordering Information**

Order by Cat. No. TDZ-FNW. TOPDOC will run on any Windows 95/98/NT/XP or 2000 system with 5MB free disk space.



[www.softplc.com](http://www.softplc.com)

**25603 Red Brangus Drive, Spicewood, TX 78669**

**512-264-8390 or 800-SoftPLC (US/Canada)**

**FAX: 512-264-8399 info@softplc.com**