



IEC 61131 PROGRAMMING SYSTEM

MULTIPROG®

5.35

MULTIPROG is the easy to use full function PLC programming system for medium and high end control applications.

MULTIPROG is the IEC programming system leading automation companies in the whole world rely on.

MULTIPROG is extensively used in different industrial sectors, from the machine building via the automotive sector up to the process automation. MULTIPROG supports distributed systems with multiple controls within one project.

Additionally MULTIPROG is suited in an optimal way to the control runtime system ProConOS which is available for both embedded solutions and PC-based controls. MULTIPROG can also be adapted to any existing control runtime system.

Via intuitive function handling users are supported in all phases of the automation project:

- Project handling
- Creation of the control application
- Parameterization and configuration of the control
- Code generation
- Test, commissioning and service
- Documentation
- Archiving

The programming languages and the project structure are in conformity to the international standard IEC 61131-3. IL and ST are certified by PLCopen.

MULTIPROG runs on Microsoft Windows® XP, Vista and Windows 7 platforms.

MULTIPROG DEVELOPMENT

The IEC 61131 programming system includes the programming languages Instruction List (IL), Structured Text (ST), Ladder Diagram (LD), Function Block Diagram (FBD), Sequential Function Chart (SFC) and:

- Enhanced user interface, dockable windows, different themes and shortcut definitions
- A project manager for distributed automation of multiple independent PLCs, including library management
- Outraging integration possibilities by ActiveX Controls and Automation Interface
- Project and edit wizards
- Complete Drag & Drop in the whole system
- Full keyboard control in all editors
- A fully graphic editor for free editing, a text editor with syntax highlighting and IntelliSense and a grid-based variables editor
- Cross references for edit and debug mode
- Full cross compilation IL – LD – FBD
- Password protection of each single POU and the complete project
- Code compilation which is optimized to only compile the changed parts of the project
- An integrated PLC simulation with an extended simulation mode
- Project comparison through all IEC editors and configuration data
- Debug and commissioning functions such as the logic analyzer, breakpoints, address debug, single step mode, overwriting and forcing of variables and recipes
- Online changes with modification of program parts while the PLC is running; in combination from ProConOS 4.0 on and ProConOS embedded CLR 2.0 online changes are possible, such as adding or deleting of variables and POU's or the modification of program code and task properties
- Improved download handling with less user actions
- Enhanced download speed from ProConOS 4.1 on
- A watch window with continuous instance information
- A detailed, context-sensitive help system
- User-generated project documentation which can be switched into any language
- User interface languages in English, German, French, Spanish, Italian, Japanese and Chinese
- Adaptation toolkit to any controller
- Automatic project import from MULTIPROG 2.x

MULTIPROG MONITORING

MULTIPROG Monitoring licenses allow debug of existing projects by the service and commissioning personnel.

Limitation: Projects cannot be changed or downloaded.

SYSTEM SPECIFICATION

PC System		MULTIPROG Pro +	MULTIPROG Suite +
	Processor	Min. Core Duo 1,6 GHz	Min. Core Duo 2,2 GHz
	RAM	Win XP: 500 MB Win 7 / Win Vista: 500 MB	Win XP: 1 GB Win 7 / Win Vista: 1 GB
	Hard disk memory	Min. 500 MByte free	Min. 1 GByte free
	Communication	TCP/IP and/or RS232	
Data Types	Operating systems ⁽¹⁾	Win XP SP3, Win Vista SP2 and Win7 (32 Bit + 64 Bit) Internet Explorer > 5.0 required	Win XP SP3, Win Vista SP2 and Win7 (32 Bit + 64 Bit)
	Bit stream	BOOL(1/8), BYTE(8), WORD(16), DWORD(32)	
	Numeric	SINT(8), INT(16), DINT(32), USINT(8), UINT(16), UDINT(32), REAL(32), LREAL(64) ⁽²⁾ Time (TIME), arrays (ARRAY), structures (STRUCT) and strings (STRING)	
System Limits	Nodes in the project tree	8000	
	Configurations / resources in the project tree	100 / 100	
	Program instances per resource	1000	
	Tasks per resource	16	
	Program instances per task	500	
	Global variables / local variables per POU	15000 / 15000	
	Included libraries	32	
	POUs in one project (incl. POUs of libraries)	2000	
	Number of supported IOs per project	up to 128 KByte	
	I/O groups	200	

⁽¹⁾ Further Windows operating system on request

⁽²⁾ For ProConOS®-Intel32 systems

SCOPE OF SUPPLY

- Software
- License agreement with softkey for one development or monitoring license of MULTIPROG® (Dongle on request)
- Installation Guide, Application Guide and Quick Start Guide as PDF files

ORDERING INFORMATION

Order number	Designation
1-1053-1003-105-X0C	MULTIPROG 5.35 Development Pro + (E) ⁽¹⁾ (SL)
1-1053-1005-105-X0C	MULTIPROG 5.35 Development Suite + (E) ⁽²⁾ (SL)
1-1053-1003-105-W00	MULTIPROG 5.35 Development Pro + (FE) ⁽¹⁾ (SL)
1-1053-1103-105-X0C	MULTIPROG 5.35 Monitoring Pro (E) ⁽³⁾ (SL)
1-1053-1103-105-Y0C	MULTIPROG 5.35 Monitoring Pro (FE) ⁽³⁾ (SL)

(E) European language set: German, English and French

(FE) Far East language set: German, English, French, Japanese and Simplified Chinese

(SL) Single License

Available programming languages:

⁽¹⁾ IL/LD/FBD/ST/SFC+ MultiUser,

⁽²⁾ IL/LD/FBD/ST/SFC/Sycon.net + MultiUser

⁽³⁾ IL/LD/FBD/ST/SFC

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