



IEC 61131 PROGRAMMING SYSTEM

MULTIPROG® 4.8

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, such as ABB, Advantech, Baumüller, Bristol Babcock, Fuji, Hitachi, Kuka Roboter, Mitsubishi, MAN Roland, Phoenix Contact, Schleicher or Yokogawa.

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® 95/98/ME and Windows® NT/2000/XP/Vista platforms.

MULTIPROG® 4.8 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), Machine Sequential Function Chart (MSFC) with integrated diagnosis and

- 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
- A fully graphic editor for automatic and 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
- Project comparison on graphical and textual editors
- 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 with ProConOS® 4.0 Win RT, Win CE and VxVorks/Intel nearly unlimited online changes are possible, such as adding or deleting of variables and POU's or the modification of program code and task properties
- 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: English, German, French, Spanish, Japanese and Chinese
- Adaptation toolkit to any controller

MULTIPROG® 4.8 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 Basic/Pro/Pro +	MULTIPROG Suite/Suite +
	Processor	Min. Pentium III 500	Min. Pentium 1 GHz
	RAM	Min. 64 MByte (128 MByte recom.)	Min. 256 MByte
	Hard disk memory	Min. 250 MByte free	Min. 350 MByte free
	Communication	TCP/IP and/or RS232	
Data Types	Operating systems	Win 95/98/ME/NT 4.0 (> SP5), Win 2000 (SP 2), Win XP (SP1), Win Vista Internet Explorer > 4.02 required	Win NT 4.0 (> SP5), Win 2000 (SP 2), Win XP (SP1)
	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) ⁽¹⁾ 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	
I/O groups	200		

⁽¹⁾ For ProConOS®-Intel32 systems

SCOPE OF SUPPLY

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

ORDERING INFORMATION

Order number	Designation
1-1048-1001-100-X0C	MULTIPROG 4.8 Development Basic (E) ⁽¹⁾
1-1048-1002-100-X0C	MULTIPROG 4.8 Development Pro (E) ⁽²⁾
1-1048-1003-100-X0C	MULTIPROG 4.8 Development Pro+ (E) ⁽³⁾
1-1048-1004-101-X0C	MULTIPROG 4.8 Development Suite (E) ⁽⁴⁾
1-1048-1005-101-X0C	MULTIPROG 4.8 Development Suite+ (E) ⁽⁵⁾
1-1048-1001-100-Y0C	MULTIPROG 4.8 Development Basic (FE) ⁽¹⁾
1-1048-1002-100-Y0C	MULTIPROG 4.8 Development Pro (FE) ⁽²⁾
1-1048-1003-100-Y0C	MULTIPROG 4.8 Development Pro+ (FE) ⁽³⁾
1-1048-1101-100-X0C	MULTIPROG 4.8 Monitoring Basic (E) ⁽¹⁾
1-1048-1102-100-X0C	MULTIPROG 4.8 Monitoring Pro (E) ⁽²⁾
1-1048-1103-100-X0C	MULTIPROG 4.8 Monitoring Pro+ (E) ⁽³⁾
1-1048-1101-100-Y0C	MULTIPROG 4.8 Monitoring Basic (FE) ⁽¹⁾
1-1048-1102-100-Y0C	MULTIPROG 4.8 Monitoring Pro (FE) ⁽²⁾
1-1048-1103-100-Y0C	MULTIPROG 4.8 Monitoring Pro+ (FE) ⁽³⁾

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

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

Available programming languages: ⁽¹⁾ IL/LD/FBD, ⁽²⁾ IL/LD/FBD/ST/SFC, ⁽³⁾ IL/LD/FBD/ST/SFC/MSFC + MultiUser,

⁽⁴⁾ IL/LD/FBD/ST/SFC/ProVisIT/Sycon.net, ⁽⁵⁾ IL/LD/FBD/ST/SFC/MSFC/ProVisIT/Sycon.net + MultiUser

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