

PLC
IndraLogic V
PC-based



PLC

IndraLogic V ■ PC-based

Documentation



- Powerful, with extensive functionality and interfaces
- Scalable with the innovative IndraControl V platform
- Open interfaces for networking via Ethernet or PROFIBUS
- Extremely well-suited for industry, with its robust device technology
- Integrated HMI solution WinStudio and IndraWorks Operation

The IndraLogic V PC-based PLC solutions are based on innovative IndraControl V hardware platform in different performance classes. Whether you prefer using a PC and operator panel in one unit or as separate components, you have flexibility in the control and visualization of your applications when you use IndraLogic V. Scaled device portfolio in extremely robust design in combination with Real-time operating systems VxWorks/VxWin or Microsoft Windows CE allows reliable use in different areas of application. And the best part of all – with the IndraWorks engineering framework, project planning and programming are easy, concise and fast.

Technical data

		IndraLogic VE	IndraLogic V
Control units			
Runtime system	Conforming with IEC 61131-3	●	●
Multitasking		●	●
Data management	Code, data, retentive data, user data	●	●
Storage	Boot project	●	●
	PLC project as packed archive file	●	●
	User data to the internal memory and a removable storage medium	●	●
Support	System events	●	●
User memory	Total: code, data	24 MB	48 MB
Retentive memory	Total: system, user	256 kB	2 MB
On-board diagnosis and settings			
Status display (boot, sercos, test)	SoftPanel	●	●
Errors, warnings, messages, system reset	SoftPanel	●	●
Ethernet settings (IP address)	SoftPanel	●	●

PLC

IndraLogic V ■ PC-based

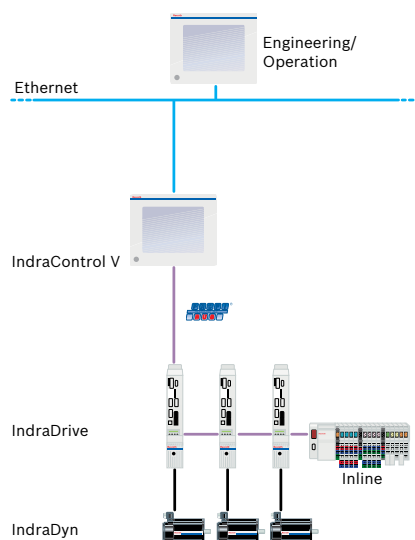
Voltage monitoring, watchdog		●	●
Interfaces on board			
PROFIBUS	Master	●	●
Ethernet TCP/IP		●	●
Control grouping	Ethernet TCP/UDP/IP	●	●
Function modules			
HMI			
IndraControl VCP, VCH	Ethernet TCP/IP, OPC	○	○
IndraControl VEP, VEH	Ethernet TCP/IP, OPC	●	○
IndraControl VSP, VPP, VSB/VDP, VPB/VDP	Ethernet TCP/IP, OPC	○	●
Inputs/outputs			
Local			
Distributed via Inline (IP20)			
PROFIBUS	On-board	○	○
Distributed via Fieldline (IP67)			
PROFIBUS	On-board	○	○
Distributed via IndraControl S67			
PROFIBUS	On-board	○	○
Logic-Control			
PLC runtime system			
IndraLogic 1G kernel	Conforming with IEC 61131-3	●	●
Program organization	According to IEC 61131-3	●	●
Loading and executing IEC 61131-3 applications		●	●
Motion-control functions using PLCopen function blocks		●	●
Task management			
Freely projectable tasks (priority 0-31)	Cyclic, free-running, event-controlled, externally event-controlled	16	32
Synchronous processing of the I/O process image		●	●
Min. PLC cycle time	Synchronous to the system cycle	1 ms	1 ms
PLC processing times			
Typical processing time for 1,000 instructions in µs	Command mix (Real, Integer, Bool etc.)	15	5
	Bool-Operation	10	5
	Word-Operation	20	5
System functions (choice)			
PID controller		●	●

PLC

IndraLogic V ■ PC-based

Temperature controller		●	●
Diagnostics			
Diagnosis(status, warning, error)	Function blocks(Software)	●	●
	SoftPanel	●	●
	Diagnostics memory(64 kB, max. 999 messages)	●	●
Debugging monitor for IEC applications		●	●
Engineering and Operation			
IndraWorks		○	○
Compatibility with all IndraLogic V systems		●	●

- Default
- Optional

Components**Engineering and operating**

Description	Page
Engineering and operating	Software tools

Control hardware and interfaces

Description	Page	Details
HMI	Embedded PC	IndraControl VEP
Industrial PCs	Box-PC / Displays	IndraControl VPB and VDP
Industrial PCs	Panel-PC	IndraControl VPP – PC solution for high-end industrial requirements

PLC

IndraLogic V ■ PC-based

I/O

Description	Page	Details
IP 20	Inline	
I/O	IP 67	Fieldline, IndraControl S67

Ordering information

Type code	Description	Part number:
FWA-VSXVPX-IL*-04VRS-D0-0048	IndraLogic V – Firmware	R911319872
SWL-VE**01-ILC-04VRS-NN-0024	IndraLogic VE – Runtime license	R911319873

Bosch Rexroth AG

Postfach 13 57
97803 Lohr, Germany
Bgm.-Dr.-Nebel-Str. 2
97816 Lohr, Germany
Tel. +49 9352 18-0
Fax +49 9352 18-8400
www.boschrexroth.com/electrics

Local contact information can be found at:

www.boschrexroth.com/adressen

The data specified above only serve to describe the product. As our products are constantly being further developed, no statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification.

It must be remembered that our products are subject to a natural process of wear and aging.