

IndraControl V – trend-setting human-machine interface (HMI) devices and industrial PCs

Rexroth IndraControl V is the comprehensive HMI system range for individual control, operation and visualization in all industries. The program range covers controller-based devices, compact embedded PCs and high-performance industrial PCs. With its scalable hardware and software, IndraControl V can be precisely adapted to your machine-specific requirements.

IndraControl V integrates all functions required for cost effective automation – from convenient operation and clearly organized visualization to integrated controls and diagnostics. When combined with the proven system solutions from Rexroth, IndraControl V provides you with a complete automation solution for:

- Printing and converting machines
- Machine tools
- Transfer machines
- Printing presses and processing machines
- Food processing and packaging machines
- Forming machines
- Wood processing machines
- Textile machines
- Handling and assembly systems

IndraControl V is available in the following versions:

- Controller-based
 - IndraControl VCP
 - IndraControl VCH
- Embedded-PC-based
 - IndraControl VEP
 - IndraControl VEH
- PC-based
 - IndraControl VSP
 - IndraControl VPP
 - IndraControl VSB
 - IndraControl VPB
 - IndraControl VDP
- Additional components
 - IndraControl VAK
 - IndraControl VAM



IndraControl V – the comprehensive product range for individual control, operation and visualization in all industries.



Versatile, sturdy and modular

- | Consistent range for control, operation and visualization
- | Reliable system technology, even in hostile industrial environments
- | Reliable in the future through modern PC technology

Your benefit

IndraControl VCP – controller-based compact operator panels



These controller-based compact operator panels allow you to edit your production data simply by pressing a key or touching the screen. The system versions cover a range from simple small graphics displays to touch screens with full graphics capabilities – with the number of function keys depending on the system design. The comprehensive interface range fulfills almost all of your communication wishes, whether Ethernet TCP/IP, fieldbus or serial.

- Inexpensive operation and visualization
- Compact dimensions
- Easy configuration of the system visualization
- Comprehensive functions with the visualization software VI-Composer
- Support of Asian characters sets

IndraControl VCH – compact manual operator panel for mobile use



Irrespective of the particular location – IndraControl VCH 08 allows operation, setup, parameterization and diagnostics via Ethernet TCP/IP. During connection and disconnection, the stop function is overridden automatically, thus ensuring smooth work. Together with the optimal design, the low weight allows fatigue-free work and high operator convenience. The integrated 3-step enabling button and the 2-circuit stop button are looped in through the connection module IndraControl VAC 30, thus ensuring maximum safety.

- Safety functions for man and machine
- Handles with integrated enabling and stop buttons
- Sturdy structure for industrial use
- Optimum ergonomics for reliable fatigue-free handling
- Brilliant 3.8" graphics display and universal-use touch panel for convenient operation and visualization

IndraControl VEP – embedded-PC-based operator panels



These panels allow you to operate your machine easily and conveniently via a touch screen or a virtual keyboard. These "almost a PC" devices only use embedded components to maximize reliability. Through the multitude of interfaces and slots, the IndraControl VEP devices can be optimally adapted to comply with machine and system requirements. This flexibility allows you to use the devices only for visualization or as control hardware. Expand your embedded PCs with our soft PLC solution IndraLogic or IndraMotion MLP for multi-axis applications.

- Compact system design for attachment in control mounting
- Hardware without hard disk or rotating media
- Control and visualization in a single device
- Integrated short-time UPS
- Visualization, operation and observation with the common WinStudio visualization software

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IndraControl VEH – manual operator panel for mobile use



Irrespective of the particular location – IndraControl VEH 30 allows operation, setup, parameterization and diagnostics via Ethernet TCP/IP. The hot-plug principle facilitates trouble-free connection and disconnection during running operation, while the stop function is reliably overridden. To ensure fatigue-free handling, highest operator convenience and ergonomics were the key factors in the design development. The integrated 3-step enabling button and the 2-circuit stop button are looped in through the connection module IndraControl VAC 30, thus ensuring maximum safety.

- Flexible use through hot-plug principle
- Safety functions for man and machine
- Handles with integrated enabling and stop buttons
- Sturdy structure for industrial use
- Optimum ergonomics for reliable fatigue-free handling
- Brilliant 8.4" touch screen for convenient operation and visualization

IndraControl VSP – cost-effective PC technology for industrial use



The operator terminals of the IndraControl VSP series integrate PC, operator and visualization to form one unit. This device allows you to control, operate and visualize single machines or stations and even complex production lines – economically and with maximum transparency in your production. This makes IndraControl VSP the ideal platform for all tasks in PC-based automation.

- Highest performance through latest PC technology
- High investment protection through standardized hardware and software
- Open and flexible for customer-specific solutions
- High production reliability through EMC-certified design
- Operator- and service-friendly system construction
- Complete traceability of all modifications over the entire service life
- Ensured service capability, at least 3 years

IndraControl VPP – compact PC system for industrial applications



The mechanical and electrical design of the IndraControl VPP compact PC control terminals make them ideal for applications that involve confined spaces. SSD memory, an optimized cooling concept and temperature monitoring ensure excellent reliability. The long-term availability of the devices and software packages gives you maximum investment security when developing and duplicating your machines.

- Best industry compatibility through the use of reliable hardware components
- Vibration resistance up to 1 g during operation
- Shock loading capacity up to 15 g
- Low heat losses through optimized cooling system
- Components, such as processors, motherboards, etc. available over the long term
- Complete traceability of all modifications over the entire service life
- Ensured service capability, at least 5 years

IndraControl VSB, VPB and VDP – ideal PC solution for distributed architecture



IndraControl VSB, VPB and VDP provide a professional solution for applications where PC and control unit have to be separated. While the industrial PC is safely kept in the control cabinet, the sturdy and extremely thin operator display can be attached directly to the machine. To meet various industrial requirements, both the PCs and the displays are available in different versions.

- Cost-effective cabinet PC (VSB) with latest technology for standard applications
- Extreme duty cabinet PC (VPB) with special hardware for hostile industrial environments
- Thin displays (VDP), with optional keys or touch screen
- Open and flexible for customer-specific requirements
- Individual solution for distributed operating and control designs
- Up to four displays at one industrial PC

IndraControl VEP and VDP – robust control terminals with an ergonomic housing



IndraControl V control terminals combine flat operating displays or embedded PCs with industrial-strength housings to form a robust unit. The IP54-compliant terminals, with IP65 protection at the front, are operated via a TFT touch screen, three function buttons, and an emergency stop button. The single-piece metal housing, with ergonomically-shaped grips and holders to VESA standards, enables user- and service-friendly operation directly at the machine.

**Operating display
IndraControl VDP**

- Hot plug-capable CDI interface
- Distance of up to 80 meters from the industrial PC

**Embedded PC
IndraControl VEP**

- Hardware with no hard drive, no rotating media
- Controller and visualization in a single unit
- Integrated UPS for temporary power

IndraControl VAK and VAM – ergonomic industrial keyboards and machine control panels



The compact industrial keyboards and the comfortable machine control panels allow you to configure a perfect and individual control and visualization design of your machine. These additional components are precisely matched to our IndraControl V devices and, with the industry-compatible design, ensure reliable and safe operation.

**Slide-out keyboards
IndraControl VAK**

- Alphanumeric keyboard and integrated mouse
- Protection to IP65 both when closed and when open

**Touch panels
IndraControl VAK**

- Robust complete keyboard with configurable keys and separate number pad
- Protection to IP65
- Low installation depth

**Machine control panels
IndraControl VAM**

- Optimized control design for standard machine tools and automated production
- Protection to IP54