HMIs and industrial PCs

Design, quality, service

Design, quality, service

Are you looking for intelligent concepts for the operation and monitoring of machines and systems? Phoenix Contact offers a wide portfolio of robust and reliable technology: starting with HMIs (Human Machine Interfaces) to powerful industrial PCs to customized solutions for specific industrial requirements. We will provide you with an impressive complete package consisting of design, quality, and service.

Design
Our HMIs and industrial PCs offer an attractive and outstanding product design. Compact and functional, they can be incorporated seamlessly into your systems or machine designs.

Quality
Made by Phoenix Contact – you can rely on this promise of quality. We put great emphasis on durable components that meet industry standards and high quality requirements.

Service
Enjoy the benefits of our extensive service, from selecting your product to retrofitting your existing systems. We also have a solution for your specific automation tasks.

Industry solutions thanks to hardware that has been specially adapted

High-performance systems that incorporate software and pre-configured hardware

Configurable ARM and PC platforms

Embedded ARM platforms

PC platforms

Visualization software

Remote monitoring hardware and software

HMIs and industrial PCs for harsh ambient conditions

HMIs and industrial PCs for Ex areas

HMIs and industrial PCs for maritime applications

Well-designed solutions for your requirements

Our added value

Multi-touch
There is a sensor pattern for projective capacitive touchscreens (PCAP). Changes in the electric field are evaluated individually in each part of the pattern. This enables multi-touch functions and gesture control.

Service friendly
In the event that maintenance is required, all components of the device, such as the data memory or the CMOS battery, are easily accessible without the need for tools.

Fanless
Carefully selected components and a sophisticated passive cooling system enable completely fanless operation. This leads to an increase in device availability, a reduction in impurities due to dust and a reduced noise burden.

Remote monitoring
In order to bridge larger distances between the processing unit and operator interface or implement cost-effective multi-access operation, we offer the right solution with the KVM Extender or Portico software.

Cost savings
Phoenix Contact offers cost-effective alternatives to operation and monitoring in the field wherever a panel PC is not required.

Cockpit
Administration and configuration made easy. Everything required for HMI setting and operation gathered together at a single location.

Remote access with Visu+ mobile
The visualization app enables convenient use of your visualization on the smartphone or tablet. SCADA functions such as trend display or alarm handling are therefore also available on mobile terminal devices.

Expanded temperature range
This refers to the ambient temperature in which the entire device will be permanently operated. Special components are often used for systems that are designated for an enlarged temperature range of -30°C to +70°C.

Readabilty in sunlight
To reduce disruptive light reflections on display surfaces, anti-reflective coating (AR coating) is used or the internal reflections are minimized by means of optical bonding processes (details on page 6).

HTML5
The web standard, providing all options for HMI projects in combination with CSS and JavaScript.

SSL encryption
Secure communication thanks to SSL-encrypted data transmission.

IP protection class IP67
Equipped with a dust-proof and waterproof computer housing for the highest HMI and IPC demands.

Contents

Our expertise for your success

The entire development and manufacturing process of our hardware and software solutions takes place in-house. At Phoenix Contact, everything you receive comes from a single source, from the first customer consultation, the circuit design, the housing design, and the software programming to startup and support. We develop modular and customized solutions in accordance with your customer requirements while building on standards. This results in excellent and customer-specific products used in a wide variety of applications.

Customer consultation
Creating the requirement profiles, development and presentation of ideas

Support
24-hour hotline, downloads, troubleshooting

Service
Instruction, training, documentation, repairs

Commissioning
Application support for visualization solutions

Production
Worldwide production sites

Development

Circuit design, housing design, prototyping of hardware and software, testing, certification

Testing

Customer approval, test run in use

Purchasing

Selection of suitable suppliers and components

Impressive properties

Versatile

Enjoy the benefits of a comprehensive range with display sizes from 2.8 to 24 inches, different processor performances, and storage variants. Our software supports all device classes.

Robust

High-quality components ensure reliable operation in harsh industrial environments. Phoenix Contact does not use rotating parts or internal cable connections in many PC variants.

Reliable

Our HMIs and industrial PCs also work in 24-hour continuous use. For this purpose, we test the system properties and interfaces of our products thoroughly.

Ready to use

We supply pre-configured hardware and pre-installed software to ensure the fast startup of the products. The devices can be integrated easily because they are adapted to the Phoenix Contact automation system.

Long-term availability

Phoenix Contact relies exclusively on components with long-term availability. This ensures sustainable use and investments that can be planned.

Powerful

Equipped with the latest processor technology such as the new generation of Intel® Core™ i processors, our industrial PCs are the right choice for the high demands of the industrial area.

Energy-efficient

Excellent performance does not automatically translate into high energy consumption. Phoenix Contact relies exclusively on energy-efficient processors. This not only saves time, but also eliminates the use of fans.

Tailor-made

Individually adjust your device to meet the needs of your application. To do so, combine any processor performance and housing sizes of industrial PCs within any series.

Customer-specific solutions

Our HMIs and industrial PCs are tailored to your specific requirements. Design and functionality can be adapted to your needs. The specific application environment and the prevailing conditions there are critical for the type and version of a solution.
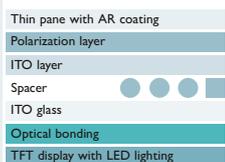
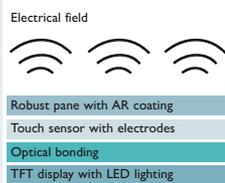## Touch technologies

Polyester touchscreen

A resistive touchscreen consists of two polyester plates that lie on top of each other and which are coated with the semiconductor indium tin oxide (ITO). Spacers are used to create a gap between the plates that is filled with air. The contact is triggered with a finger or any other object.
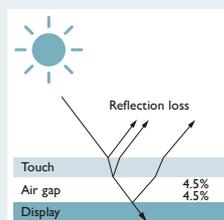
Glass-film-glass touchscreen (GFG)

The GFG touch combines the proven, pressure-based analog resistive touch technology with a high-quality glass design. As a result, it is best suited for harsh ambient conditions. The device can be operated with fingers, gloves, stylus pens or any other object, without causing damage.
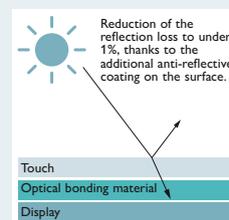
Projective capacitive touchscreen (PCAP)

A transparent ITO layer underneath the glass cover, consisting of touch sensors, projects a uniform electrical field that extends through the glass to the user. The operator panels with PCAP touch technology support multi-touch functions and gesture control.

Readability in sunlight

Without optical bonding

With optical bonding and AR coating

Optical bonding

In this special adhesive procedure, optical components such as the display, touch or glass are connected to one another with a transparent adhesive over their entire surface in a highly technical procedure. The removal of the air gap minimizes the internal reflections and leads to an improvement of the optical properties.

Anti-reflective coating (AR coating)

Anti-reflective coatings are used to reduce disruptive light reflections on glass surfaces. This ensures displays are rich in contrast and can be read easily by the viewer if there is incoming ambient light or glistening sunlight.
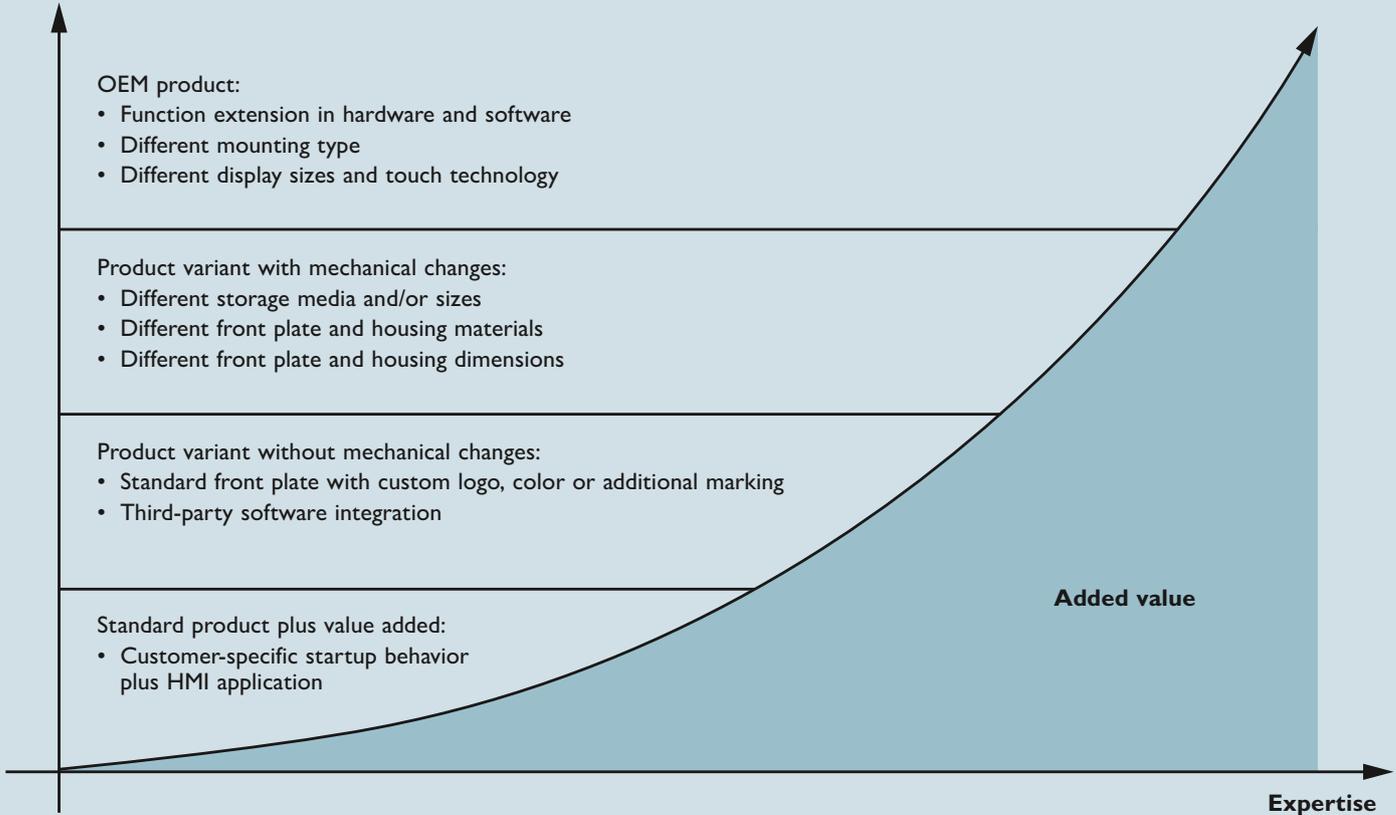
Added value thanks to individual solutions

Is the display visible in sunlight? Are the housing surfaces resistant to chemical influences? Is the device suitable for very high or very low temperatures? Does it work even at high levels of humidity? Does it correspond to high degrees of protection, up to IP69K? Is it shockproof? Is it mildew resistant? These, and many other questions, are just the sort of thing we ask ourselves here at Phoenix Contact on a daily basis. And we find answers.

Individualization level

OEM product:
- Function extension in hardware and software
- Different mounting type
- Different display sizes and touch technology

Product variant with mechanical changes:
- Different storage media and/or sizes
- Different front plate and housing materials
- Different front plate and housing dimensions

Product variant without mechanical changes:
- Standard front plate with custom logo, color or additional marking
- Third-party software integration

Standard product plus value added:
- Customer-specific startup behavior plus HMI application

Added value

Expertise

All core competencies from a single source

At Phoenix Contact, we only produce high-quality products. The conditions for this are set in the core competencies that have been developed over years, that extend across the entire value added chain.

Touch display
- Chemically resistant surfaces
- Increased operational reliability, thanks to distinctive tactile feedback from the keys
- Easy to use when wearing work gloves
- The surfaces have a high resistance to abrasion
- Anti-vandalism requirements

Mechanics
- Special hygiene requirements, through prevention of dirt-gathering edges
- Fronts made from special materials, e.g. stainless steel

- Increased degrees of protection, e.g. IP67 and higher
- Extremely robust full metal housing design
- Rear installation
- Installation in special housing and operator stations
- Mounting on swivel arms
- Additional command and signaling devices

Electronics
- Various processors
- Various mass storage devices
- Non-volatile memory
- Additional interfaces
- Extended supply voltage

Software
- Different operating systems
- Softkeys for dimming the backlighting
- Software solutions with software PLC and visualization from various providers

Cross-component
- External horn and floating contact
- Extended EMC requirements
- Resistance to shock and strong vibrations
- Extreme temperature requirements
- Additional functions such as integrated heating
- Solutions for potentially explosive areas (ATEX 2/22)
- Individual approvals and certifications

HMIs

Do you want to expand your automation solution by adding a simple concept for operation and monitoring? Our comprehensive portfolio provides HMI devices for the simple display of operating data right up to high-end visualizations. And in every performance class, you will benefit from our many years of automation expertise and our hallmark of quality: Made by Phoenix Contact.

HMIs for basic applications

- Eight different display variants ranging in 4:3 or 16:9 formats
- Variants with analog resistive polyester touchscreen and glass-film-glass touchscreen (GFG)
- Supported software: Visu+ (BTP 2000), PC Worx Engineer (BWP 2000), Webvisit (WPxx) and HTML5 programming (BWP 2000)
- Supported controllers: Phoenix Contact PLCs and popular third-party controllers, all controllers and devices that feature an integrated web server

Visualization software for every area of application

Whether in the central control room, in the production area or directly on the machine – efficient automation requires the right visualization. Whatever the visualization task you want to implement, we offer the right software. Enjoy the benefits of our extensive portfolio for operation and monitoring.

HMIs for standard applications

- Ten display variants ranging in size from 3.5" to 18.5" in 4:3 or 16:9 formats
- Variants with analog resistive polyester touchscreen (AR) and glass-film-glass touchscreen (GFG)
- Variants with projective-capacitive touchscreen (PCAP and multi-touch function)
- Variants with MPI, PROFIBUS, RS-232/485, CAN or DualCAN interfaces
- Supported software: WebVisit, Visu+, HMTL5-based web editors
- Supported controllers: ILC, RFC, and AXC from Phoenix Contact as well as numerous third-party systems

HMIs for high-end applications

- Variants with analog resistive polyester touch and with projective-capacitive touch (PCAP)
- Supported software: Visu+, PC Worx Engineer and HTML5
- Supported controllers: ILC, RFC, AXC and PLCnext Control, as well as numerous third-party systems

Box PCs and rack PCs

Industrial PCs are indispensable in industrial environments. Box PCs for the DIN rail or with extensive expansion options are just as much a part of the portfolio as powerful rack PCs in the 19" format. Enjoy the benefits of a robust and configurable solution for collecting and processing, measuring, controlling, and visualizing your data.

Box PCs for the DIN rail

- Optimum performance suited to every application, thanks to Intel® Celeron™ and Core™ processors
- Fanless design and no moving parts
- High resistance to shock and vibration
- Compact build for applications where space is limited

Box PCs

- Optimum performance suited to every application, thanks to Intel® Atom™ and Core™ processors
- Fanless design and no moving parts
- Access to all important components without the use of tools
- Optional: two PCI slots
- Easy connection to existing peripheral equipment through serial interfaces

KVM Extenders for remote operator interfaces

The VL KVM EXTENDER enables data transmission between an industrial PC and an operator panel over a distance of up to 90 m. With just one standard Ethernet cable, you can transmit video, audio, and USB signals between a remote operator panel and a control cabinet PC without losses. The system is platform-independent and is based on a pure hardware solution.

Box PCs

- Optimum performance suited to every application, thanks to Intel® Celeron™ and Core™ processors
- Fanless design and no moving parts
- Access to all important components without the use of tools
- Optional: PCI/PCIe slot
- Easy connection to existing peripheral equipment through serial interfaces
- RAID support (0/1)

Rack PCs

- Optimum performance suited to every application, thanks to Intel® Core™ processors
- Solutions with two or four rack units (RU)
- RAID support (0/1/5)
- Two or three hot swap drives
- Lockable front flap
- Wide variety of PCI/PCIe slots

Panel PCs, monitors, and tablet PCs

Intuitive operating concepts are becoming increasingly important in machines and systems. For this reason, be sure to use a powerful and appropriate solution for control, operation, and monitoring. Phoenix Contact offers touchscreen monitors as well as powerful panel and tablet PCs. Transform your operator panel into your system's business card with the appropriate software.

Touchscreen monitors

- Display sizes ranging from 12" to 21.5" with 4:3 or 16:9 formats
- Variants with analog resistive polyester touchscreen (AR)
- Variants with projective capacitive touchscreen (PCAP)
- High shock resistance and electromagnetic compatibility
- Optional front USB
- Easy VESA 100 assembly

Panel PCs

- Display sizes ranging from 5.7" to 24" with 4:3 or 16:9 formats
- Variants with analog resistive polyester touchscreen (AR)
- Variants with projective capacitive touchscreen (PCAP)
- Optimum performance suited to every application, thanks to Intel® Atom™ and Core™ processors
- Fanless design and no moving parts
- Optional: PCI/PCIe slots

High-performance software for your industrial PCs

Trending, alarming, data logging, and reporting are only a few functions the Visu+ visualization software is capable of. SCADA supports common standards in data formats or communication.
PC Worx Engineer has been optimized for creating modern visualization solutions and is based on open standard applications such as HTML5 and JavaScript. Make multi-user process operation a reality with Portico. Assign access rights and reflect the display of an industrial PC to other control stations without the need for a server operating system.

Panel PCs with IP65

- Protection against jet water and dust
- Display sizes ranging from 15" to 21.5" with 4:3 or 16:9 formats
- Variants with analog resistive polyester touchscreen (AR)
- Variants with projective capacitive touchscreen (PCAP)
- Optimum performance suited to every application, thanks to Intel® Atom™ and Core™ processors
- Fanless design and no moving parts
- Easy VESA 100 assembly

Tablet PCs

- Large-area visualization, thanks to 13.3" display with Full HD resolution
- Optimum performance suited to every application, thanks to Intel® Celeron™ and Core™ processors
- Stable connection via WLAN or Bluetooth
- Tried-and-tested handling, thanks to enclosed monocoque frame
- Convenient battery replacement during operation, thanks to hot swap technology

HMIs and industrial PCs for harsh ambient conditions

HMIs and industrial PCs are also used in areas that are subjected to extreme environmental influences and loads. With the robust outdoor devices, Phoenix Contact offers HMIs and industrial PCs that are specially tailored to these requirements. In addition to a display that is readable in sunlight and dust and water-proof housing, our devices also have the necessary certifications.

Can be read in sunlight

You can even use your devices in direct sunlight. The displays of the outdoor devices can be easily read at all times.

IP67 degree of protection

Regardless of the prevailing environmental conditions in your system, the IP67 front offers reliable protection at all times.

Protective coating

Coated printed circuit boards ensure corrosion resistance for applications in damp and corrosive environments.

Outdoor applications

- Display sizes ranging from 4.3" to 15" in 4:3 and 16:9 formats
- Temperature range from -20°C to +60°C, some selected devices from -30°C to +70°C
- Display can be read easily if there is incoming sunlight, thanks to anti-reflective coating and optical bonding
- Resistant to UV and IR radiation and other environmental influences such as salt spray
- Variants with analog resistive glass-film-glass touchscreen (GFG)
- Variants with projective capacitive touchscreen (PCAP)
- Fanless design and no moving parts
- Easy to use, even when wearing work gloves

Classic   Can be read in sunlight

Cold region   Warm region

Robust design

- Increased availability
- Display that is readable in direct sunlight, for instance thanks to optical bonding

(model-specific)

Broadened temperature range

- Increased availability
- Operating temperatures from -30°C up to +70°C
- Thermal separation of warm and cold regions
- Passive cooling

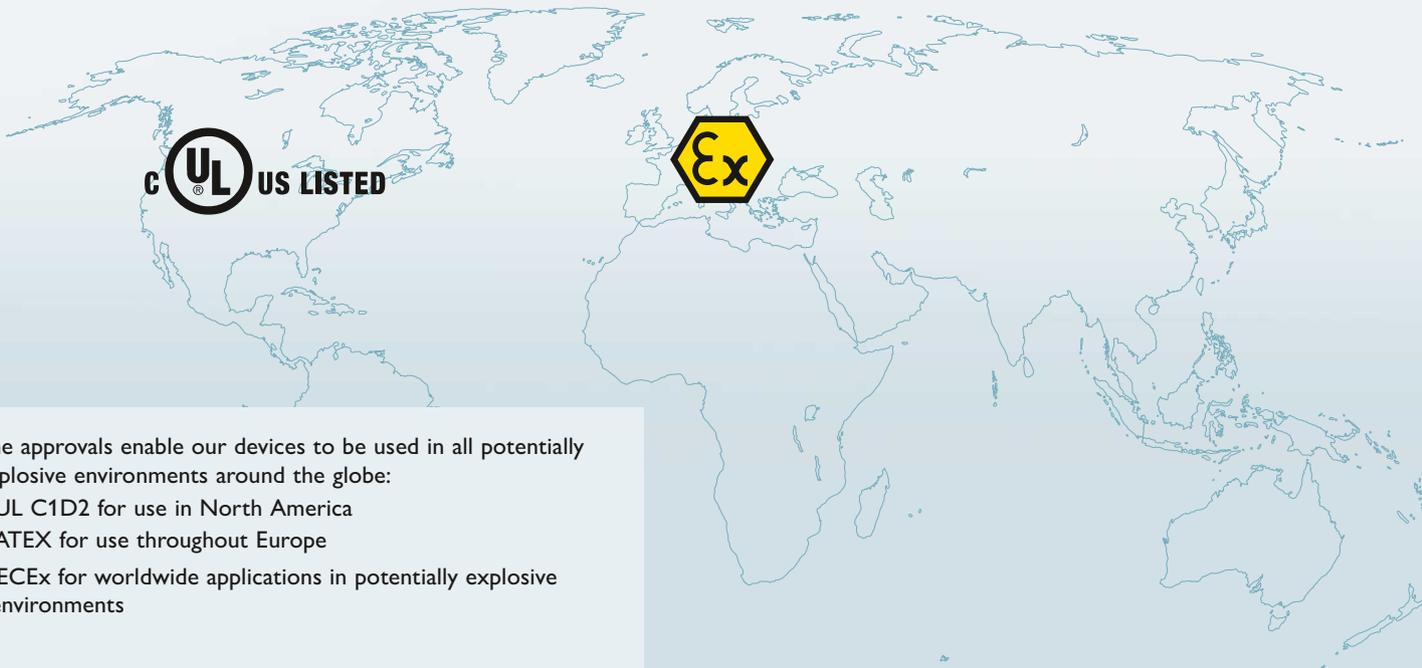*(model-specific and configuration-dependent)*

Protection class

- IP65
- IP66
- IP67
- NEMA 4
- NEMA 4X

(model-specific)

Certifications

- UL Class 1 Div 2
- IECEx
- ATEX Zone 2/22

(model-specific)

HMIs and industrial PCs for Ex areas

Wherever there's steam and hissing, where liquids, gases or powders are mixed, operation and monitoring devices are required. These devices must be designed for such potentially explosive areas as these. Phoenix Contact has expanded its industrial PC product family with new IECEx and ATEX Zone 2/22-approved panel and box PCs. These new EX products are available in various power levels and display sizes in widescreen format with PCAP touch technology, and meet all the requirements for devices being used in potentially explosive environments.

The approvals enable our devices to be used in all potentially explosive environments around the globe:
• UL C1D2 for use in North America
• ATEX for use throughout Europe
• IECEx for worldwide applications in potentially explosive environments

Box PCs

- Optimum performance suited to every application, thanks to Intel® Atom™ and Core™ processors
- Fanless design and no moving parts
- Access to all important components without the use of tools
- Optional: PCI/PCIe slot
- IECEx and ATEX Zone 2
- UL 1604
- ATEX: ⟨Ex⟩ II 3 G Ex ec IIC T4 Gc
- IECEx: Ex ec IIC T4 Gc

Panel PCs

- With projective capacitive touchscreen (PCAP)
- Optimum performance suited to every application, thanks to Intel® Atom™ and Core™ processors
- Fanless design and no moving parts
- Optional: PCI/PCIe slots
- ECEx and ATEX Zone 2/22
- UL 1604
- ATEX: ⟨Ex⟩ II 3 G Ex ec IIC T4 GC IP65
  ⟨Ex⟩ II 3 D Ex tc IIIC T65°C IP65
- IECEx: Ex ec IIC T4 Gc IP65
  Ex tc IIIC T65°C DC IP65

HMIs and industrial PCs for maritime applications

For demanding use on ships, Phoenix Contact offers robust operator and display panels that are specifically tailored for the requirements of shipping. The HMIs and industrial PCs for maritime applications possess all necessary approvals and provide you with user-friendly and reliable operation, monitoring, and alerting while at sea.

Maritime applications

- Display sizes ranging from 4.3" to 15" in 4:3 and 16:9 formats
- Tailor-made for onshore and offshore maritime applications
- Variants with analog resistive polyester touchscreen (AR)
- Variants with analog resistive glass-film-glass touchscreen (GFG)
- Display that can be read in sunlight, weather-resistant materials, and resistance to chemicals, e.g., aggressive cleaning agents for variants with GFG touch
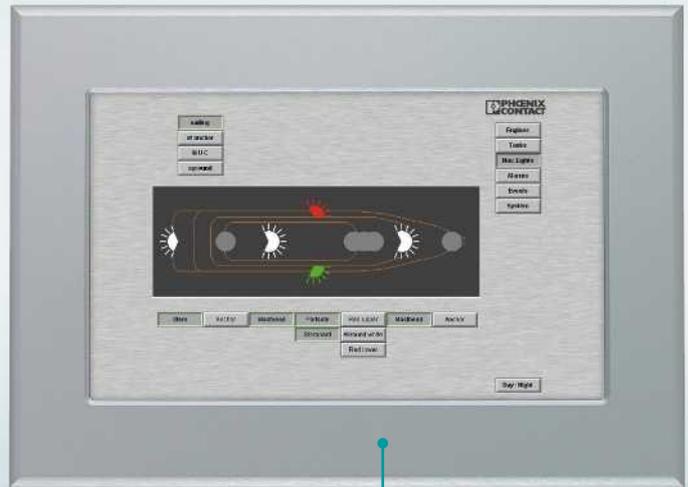- Fanless design and no moving parts

EN 60945

Black front plates

It has to be possible to use the maritime device's user interface in bright sunlight. The front plate made from black anodized aluminum absorbs light and prevents reflections.

Floating output

Additional connection options are available via the floating output, such as for an external signal generator. I/O devices can therefore be connected directly, without including a controller, I/Os, and relay between the maritime device and signal generator. This reduces wiring effort and costs.

Audible warning signal

An audible warning signal also indicates critical operating state changes.

Dimmable

For navigation at night and operation in the dark it is essential that the backlighting of the display can be set to a defined dimming setting.

Safe compass distance

Tested by the Bundesamt für Seeschifffahrt und Hydrographie (BSH, Federal Maritime and Hydrographic Agency of Germany). Maritime devices are certified for the measurement of the safe distances from the standard magnetic compass and magnetic steering compass in accordance with ISO R 694 and DIN EN 60945 Paragraph 11.2.

Remote monitoring

It does not always make sense to use both processing unit and operator interface at the same spot, or more than one operator interface may be required. With our remote software, you can implement cost-effective multi-access operation, optimally adapted to the requirements of your system. For transmitting data over larger distances, we offer the right hardware solution with the KVM Extender.
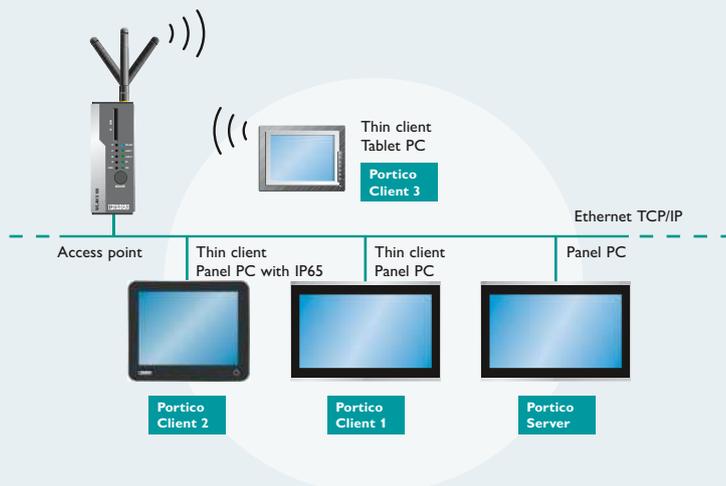
Portico

- Individual operation and monitoring concepts with up to 16 clients

- Simultaneous display of an industrial PC's screen information at multiple control stations without a server operating system

- Inexpensive, thanks to the use of thin clients

- Configuration tool for convenient management of access rights

- Fast screen and input response, thanks to communication via TCP/IP network protocol

- Low memory usage by server and client
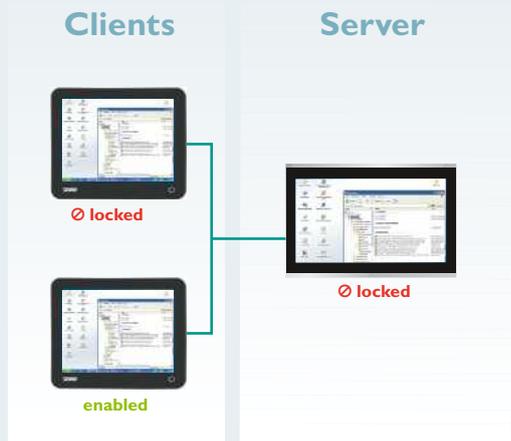
Remote network portal software

Flexible operation of industrial PCs

Optimally tailor your operating concept to the requirements of your system. With the Portico software, you can install up to 16 thin clients exactly where you need them. If employees based in various locations need to access the machine, you can design individual solutions in this way. Thanks to the unique assignment of access rights, your system is also protected against unauthorized access.

Portico offers an inexpensive way of creating operating concepts featuring multi-user operation, no matter what distances are involved.
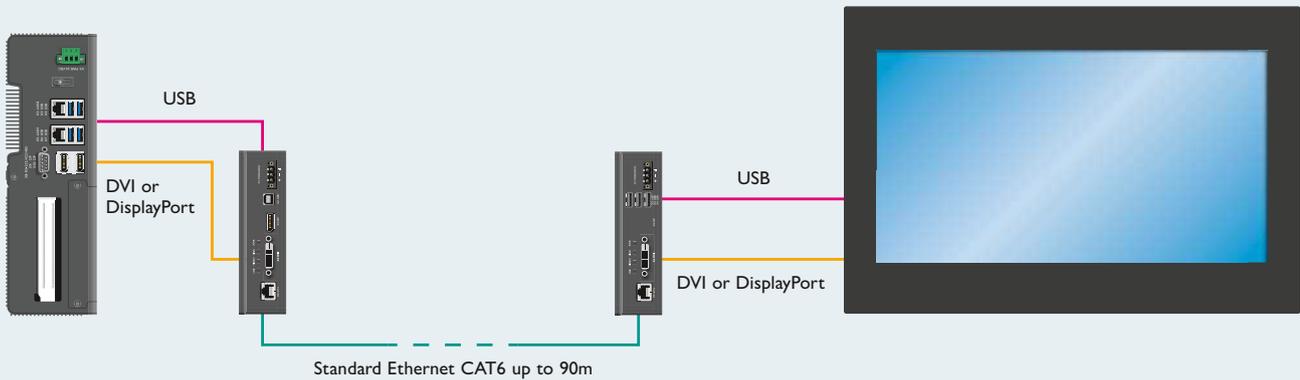
A configuration tool enables you to easily manage access rights. This enables you to prevent simultaneous operation.

KVM Extender

The VL KVM EXTENDER enables data transmission between an industrial PC and an operator panel over a distance of up to 90 m. With just one standard Ethernet cable, you can transmit video, audio, and USB signals without losses between a remote operator panel and a control cabinet PC. The system is platform-independent and is based on a pure hardware solution.

USB

DVI or DisplayPort

USB

DVI or DisplayPort

Standard Ethernet CAT6 up to 90m

Main features

- Transmission of video, audio, and USB signals up to 90 m
- Maximum resolution 1920 pixels x 1080 pixels at 60 Hz (Full HD)
- External dimensions: 150 mm x 80 mm x 43 mm
- Wall, bookshelf or DIN rail mounting
- Interfaces: 1x DVI-D, 1x DP++
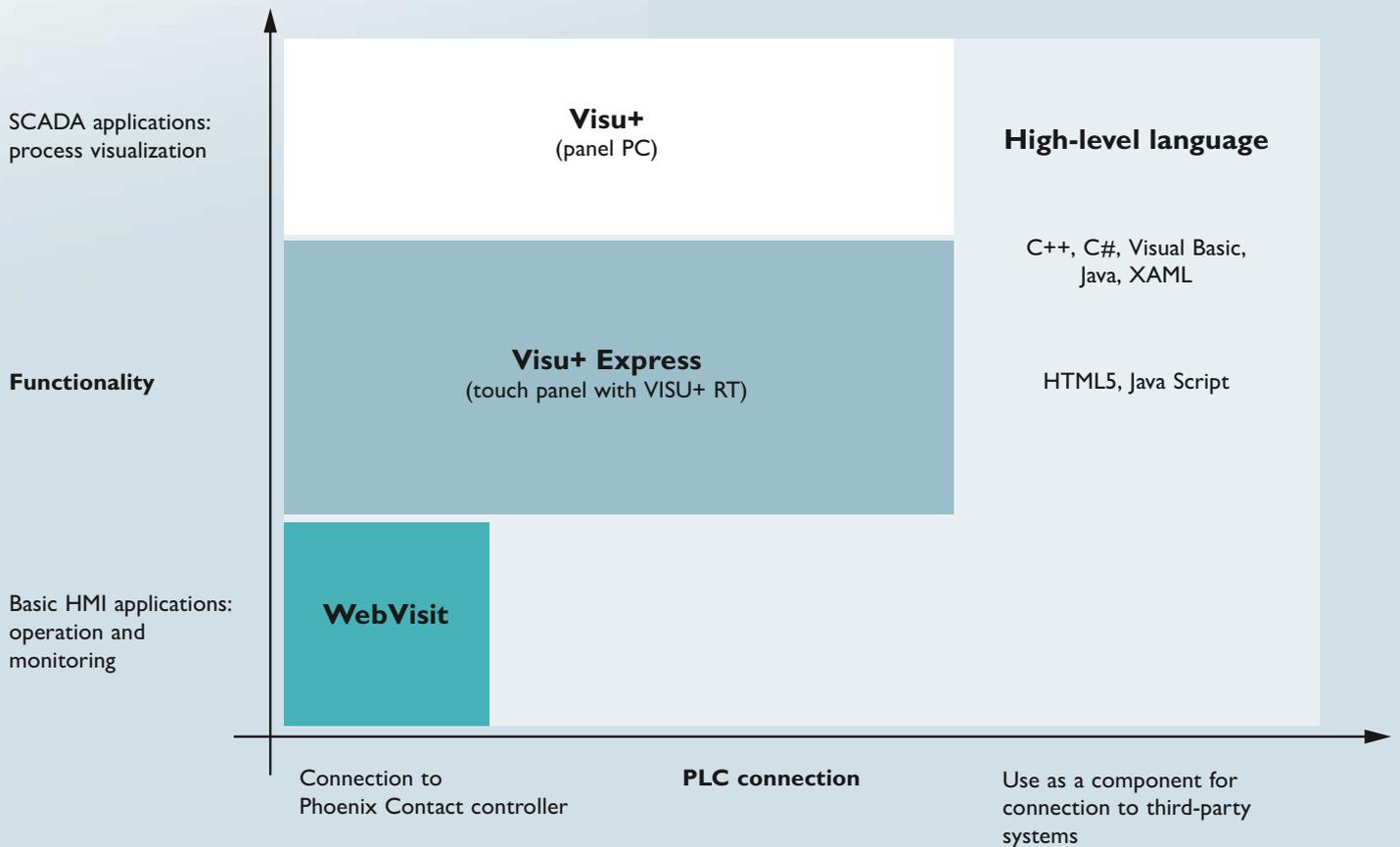- 24 V DC +/- 20 %

Your advantages

- Flexible, thanks to remote operating solutions up to 90 m
- Cost-effective, thanks to elimination of cable and mounting costs
- Increased system availability, thanks to the use of purely passive displays
- Industry-capable, thanks to an expanded temperature range of -20°C to +50°C
- Fast startup, thanks to a solution consisting purely of hardware

Visualization software

Whether in the central control room, in the production area or directly on the machine – efficient automation requires the right visualization. The requirements for user interface, functionality, and system coupling determine which visualization system is appropriate and which particular HMI type should be selected.

Your advantages
- Tailored use of the software, thanks to extendable scope of functions
- Fast HMI startup procedure, thanks to preconfigured hardware and pre-installed software
- Efficient multi-user operation thanks to server-client architecture and web connection

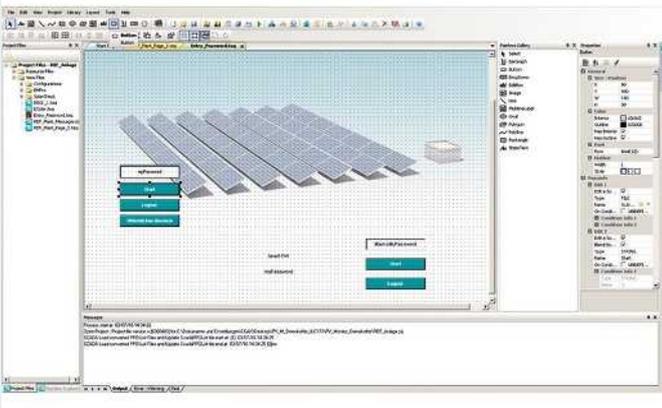|		
SCADA applications: process visualization	**Visu+** (panel PC)	**High-level language**
		C++, C#, Visual Basic, Java, XAML
Functionality	**Visu+ Express** (touch panel with VISU+ RT)	HTML5, Java Script
Basic HMI applications: operation and monitoring	**WebVisit**	
	Connection to Phoenix Contact controller	**PLC connection** Use as a component for connection to third-party systems

WebVisit

The WebVisit editor enables you to easily create user interfaces for visualization. By means of the integrated web server in the controller, the visualization is displayed on the touch panels through the microbrowser.

- Easy to get started with process visualization
- Free express version for creating up to ten visualization pages and linking a maximum of 60 process variables (PPO)

- Easy maintenance, as the project is only executed at one point (controller web server) (single point of service)
- Two operating modes:
  - Java: ideal for stationary on-site operation on all touch panels with integrated microbrowser
  - HTML5: ideal for location-independent multi-station control on all display devices with a standard browser (both stationary and mobile)

WebVisit software interface

Visu+ / Visu+ Express

Visualizations with SCADA functions are impressive in terms of their scalability and versatility. Monitor and operate complex machines, systems or automated processes with Visu+.
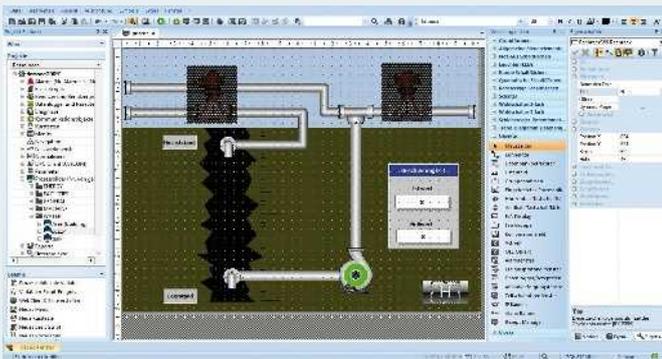
- Creation of graphically demanding user interfaces
- Connection to countless controller systems
- App for accessing the application via mobile end devices
- The license for the runtime environment is already included in the price of HMI devices

Visu+ Express
- Free-of-charge express version
- Scope of functions optimized for conventional HMI requirements
- Display devices supported: HMIs

Visu+
- SCADA scope of functions
- Display devices supported: HMIs and industrial PCs
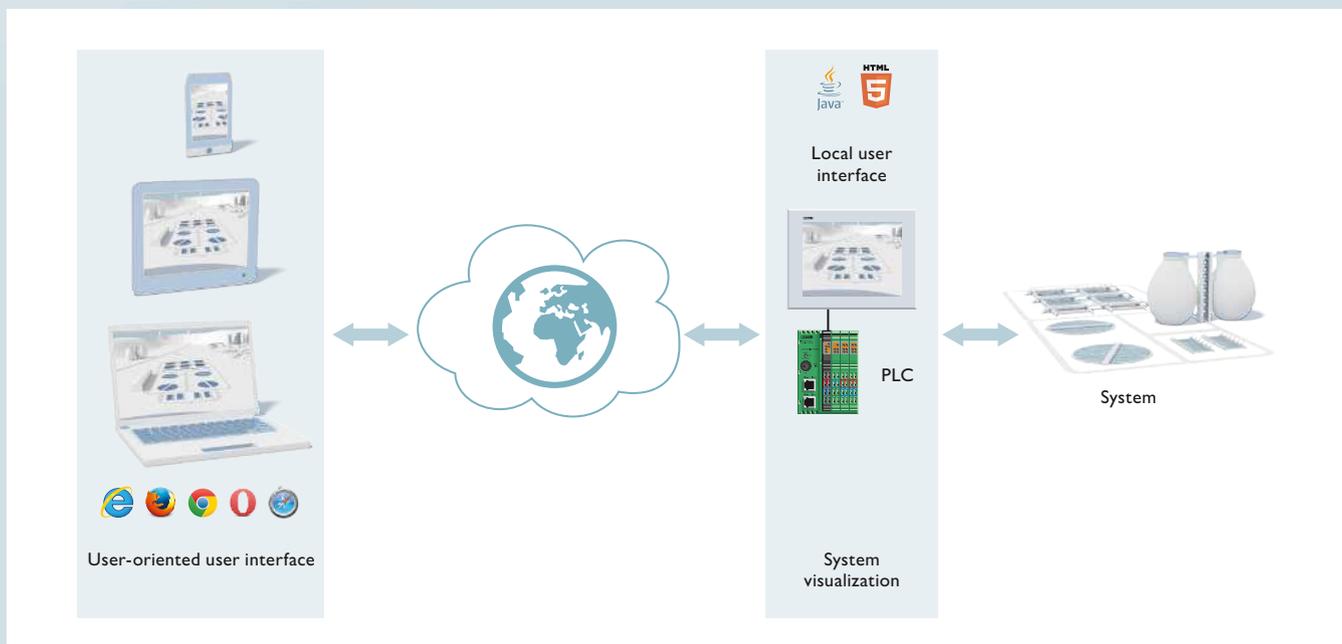

Visu+ software interface

Flexible and inexpensive visualization with HTML5 web technology

Flexible integration of machines and systems with HTML5 web technology. Open browsers on the operator panels let you configure the web-based visualization for your system without any restrictions. Among other HTML5 visualization tools, you will additionally find an optimally coordinated system with a PC Worx Engineer HMI.

Thanks to the graphics acceleration for web browsers and an efficient interaction between the Linux operating system and browser, our industrial-suited devices display their strengths with high performance.

Your advantages
- Flexible, thanks to open web standard and free choice of web server and visualization software
- No runtime license costs
- Secure data transmission with SSL encryption
- Independent visualization with self-programmed JavaScript applications
- Flexible operation and monitoring, as it is location and time-independent – even a commercially available smartphone or tablet computer can be used for visualization
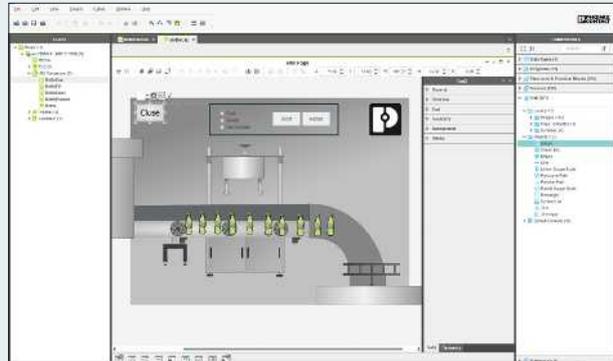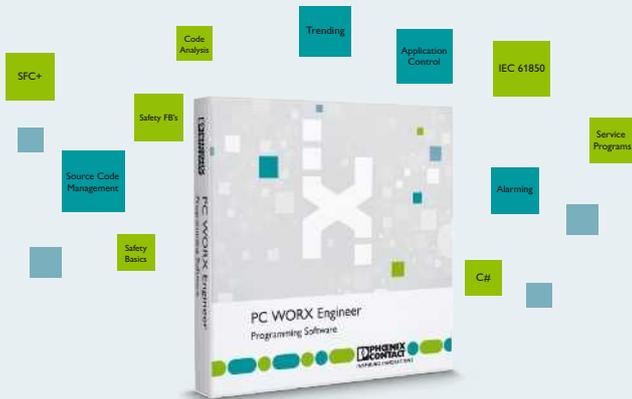
Local user interface

PLC

System

User-oriented user interface

System visualization

Flexible visualization with web technology

PC Worx Engineer

PC Worx Engineer has been optimized to create modern visualization solutions. Already familiar operating concepts from other editors make it easier to get started. With respect to the technology, the visualization integrated into PC Worx Engineer is based on open standards such as HTML5 and JavaScript.

No web-based skills are required, the software offers numerous symbols and templates and can be expanded on a case-by-case basis.

Intuitive user interface for the entire engineering process

- Programming for the new generation of Phoenix Contact controllers
- End-to-end engineering: configuration, programming, visualization, and diagnostics
- Easily scalable and adaptive thanks to standard technologies such as HTML5 and JavaScript
- Extensive symbol libraries that can be expanded and reused as often as required
- Free download and licensed add-ins available at phoenixcontact.com

Further information on
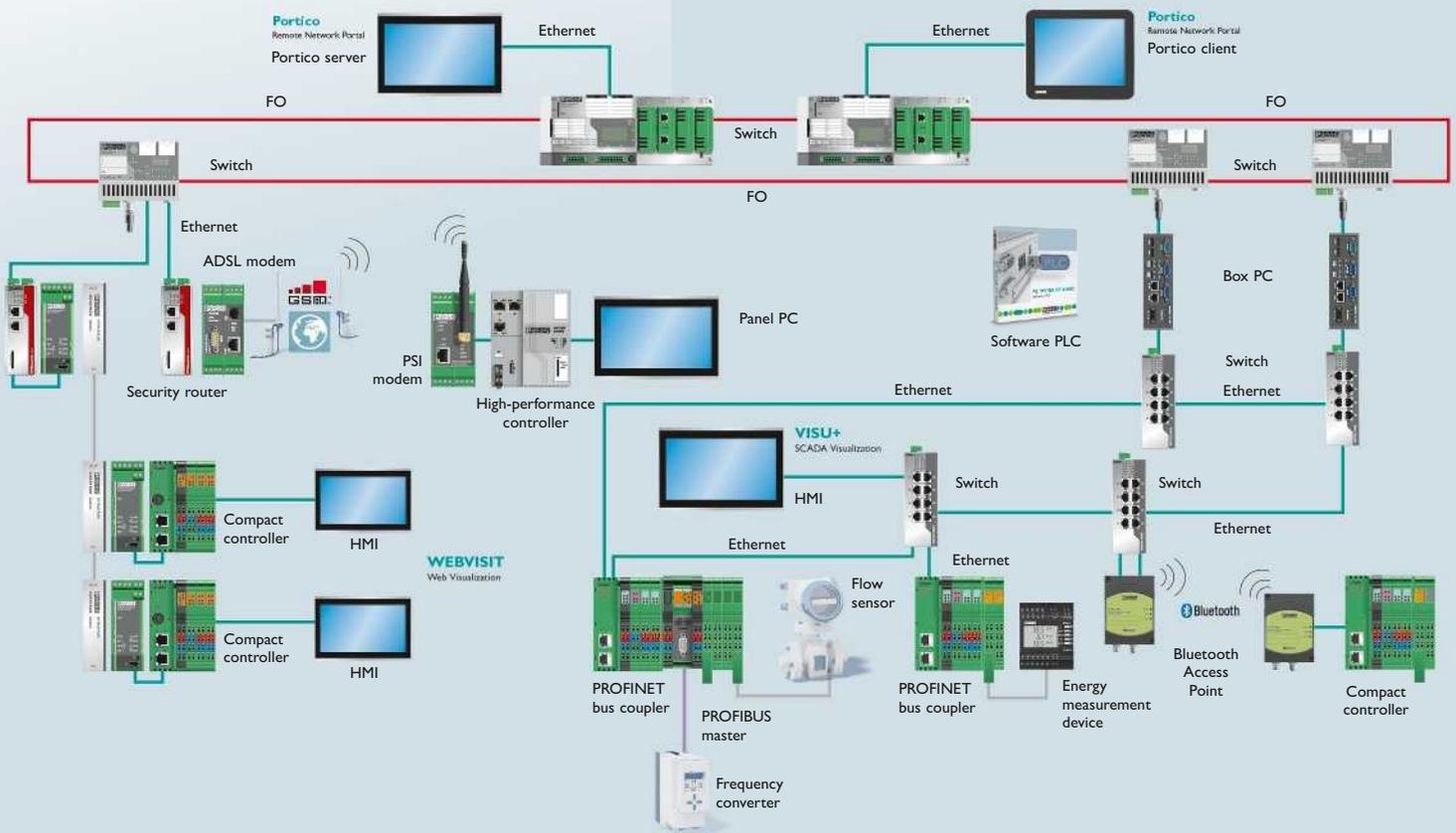PC Worx Engineer-compatible
controllers available at:

Web code: #1922

Automation from a single source

Phoenix Contact offers a comprehensive product range of automation solutions.

For more information on our products: simply enter the web code in the search field on our website.

i **Webcode:** #0001

We provide excellent products for your systems and automation requirements. We support you with our experience in engineering, service, and support as well as with customized solutions especially for you.

Excellent products

Controllers

Phoenix Contact offers controllers in all performance classes for efficient automation of your system.
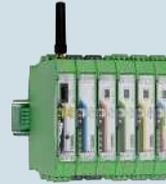
Industrial Ethernet

With the products from Phoenix Contact, you can make the most of all the options offered by Ethernet networks: consistency, speed, and extreme flexibility.

I/O systems

Collect and transmit signals and data quickly and reliably to your systems.

Wireless data communication

Modern wireless technology offers efficient and consistent communication for all industrial applications.

Software

Benefit from innovative software solutions – optimally tailored to hardware from Phoenix Contact.

Power supplies and UPS

Maximum availability for your systems – our solutions for your power supply are technologically groundbreaking.

Fieldbus components and systems

Save time during planning and installation. With this versatile product range you can create a fieldbus network for every application.

Surge protection and interference suppression filters

Do you want system operation to be unaffected by interference? Then surge protection from Phoenix Contact will help you fulfill an essential requirement.

Functional safety

Innovative safety solutions for all requirements. Play it safe, make the right choice.

Lighting and signaling

Whether you are dealing with the system's state, product quality or hard-to-inspect dark areas – with intelligent lighting and signaling technology, you always have everything in view.

In dialog with customers and partners worldwide

Phoenix Contact is a globally present, Germany-based market leader. Our group is synonym for future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation. A global network across more than 100 countries, and 16,500 employees ensure a close proximity to our customers, which we believe is particularly important.

The wide variety of our innovative products makes it easy for our customers to find future-oriented solutions for different applications and industries. We especially focus on the fields of energy, infrastructure, process and factory automation.

You will find our complete product range at:

phoenixcontact.com

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PHŒNIX CONTACT

INSPIRING INNOVATIONS