Touch Panel 600

Aesthetic Design Meets High Performance

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Our Added Value At a Glance

High Performance
Parallel execution of computing operations with a Cortex A9 Multicore processor providing high operating speed.

Openness
High performance WAGO hardware combined with the future-ready Linux® operating system; for complex tasks, you can choose between programming in IEC 61131 or directly in Linux®.

e!COCKPIT
The ***e!****COCKPIT* Engineering Software, which is based on CODESYS V3, is used for visualization, programming, offline simulation, configuration of the fieldbuses, recipe management and much more.

Flexible Interface Options
Touch Panel offers three different architectures: Web, Visu and Control, with three levels of device technologies: Advanced, Marine and Standard.

IIoT-Ready
Through the use of a library, the Control panel becomes an IIoT touch controller than can send data from the field level to the cloud.

Cybersecurity
The SSH and SSL/TLS encryption methods are integrated by default for establishing secure HTTPS and FTPS connections. A firewall provides additional protection against unwanted access.

HTML5 Visualization
The use of standardized state-of-the-art technology allows the visualization to be displayed on mobile devices like smartphones and tablets.

Multi-Touch Capability
Devices with capacitive touchscreens allow gesture recognition, e.g., swipe gestures for turning pages or zooming.

Docker Containers
The Control panel supports Docker Containers, providing the ability to run applications in parallel with your logic and visualizations.

Convenient Operation
Sensors can automatically adjust the brightness of the panel based on a room's ambient lighting conditions. The position of the screen setting buttons on the front side allows user-friendly adjustment.

Energy Efficiency
An integrated proximity sensor controls the screen saver and automatically displays the screen when the operator is present. An integrated light sensor detects ambient lighting levels for brightness control.

Anti-Reflective
The black front plate on the marine devices absorbs incident light and prevents reflections.

Maintenance-Free
The Touch Panel has no fan or battery, making it completely maintenance-free.

High Protection Class
With specially developed clamps, the NEMA 4X / IP65 degree of protection can be achieved for the front of the display. This design flexibility makes the panel extremely versatile and suitable for a wide variety of applications.

Three Function Classes

Operate, observe, visualize and diagnose in factory, process and marine applications. Touch Panels with various hardware configurations are ideal for small-to-mid sized control and visualization tasks. Underneath a modern design, our Touch Panels pack some of the industry's most powerful technology, allowing you to harmonize the high-tech image of your machines through high quality and high performance visualizations.

With three architectures to choose from, you can select the best strategy for your application.

Web Panel: Pair with WAGO's web server enabled PLCs for a stylish operator interface.

Visu Panel: Share the control load between the PLC and operator interface.

Control Panel: An all-in-one HMI and PLC; a high performance controller with high quality graphic resolutions.

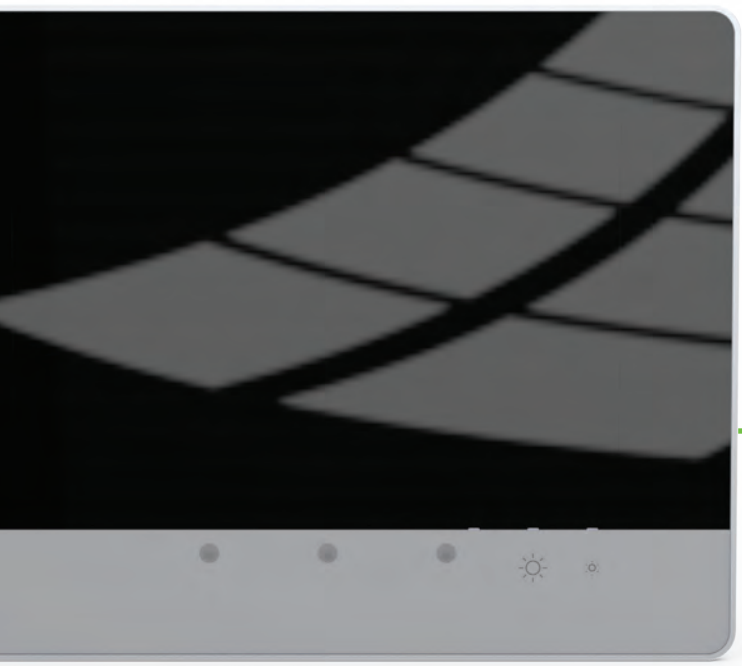
Three Product Styles

Standard Line

Devices with resistive touch screens for standard control cabinet applications

Marine Line

Devices with black matte anti-reflection surfaces and special marine approvals for use in shipboard automation



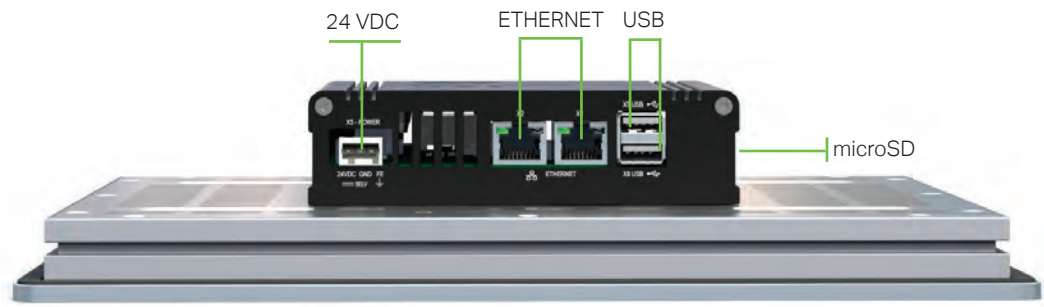
Advanced Line

Capacitive multi-touch devices with a glass surface, along with greater mechanical and chemical resistance for more extensive requirements

Three Port Configurations

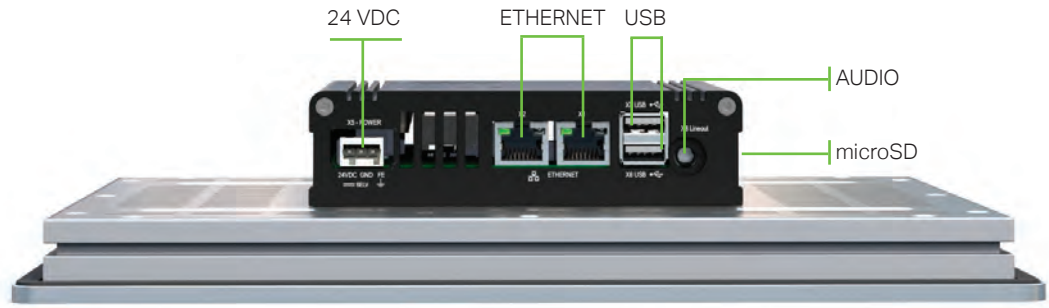
Configuration PI01

- 2 congifurable Ethernet ports
- 2 USB host 2.0
- microSD (max 2 GB) / microSDHC (max 32 GB)



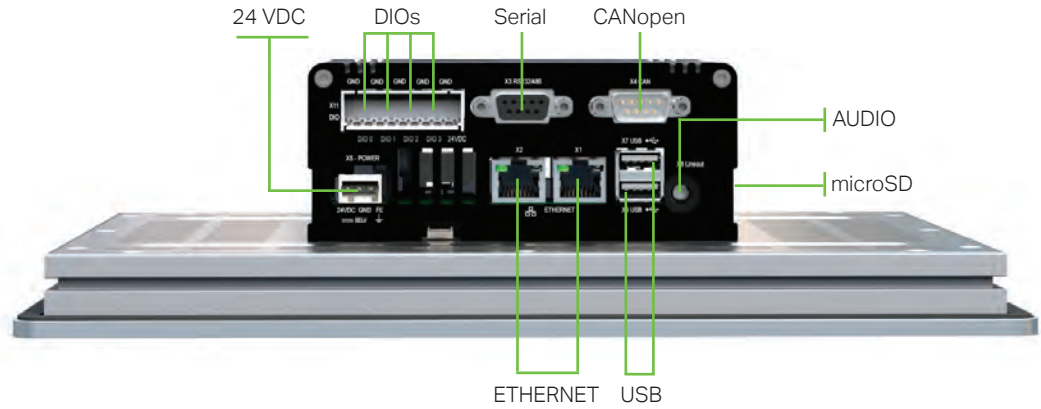
Configuration PI02

- 2 congifurable Ethernet ports
- 2 USB host 2.0
- microSD (max 2 GB) / microSDHC (max 32 GB)
- Audio



Configuration PI03

- 2 congifurable Ethernet ports
- 2 USB host 2.0
- Configurable serial
- 4 configurable DIOs
- CANopen
- microSD (max 2 GB) / microSDHC (max 32 GB)
- Audio
- Retained memory



Your benefits:

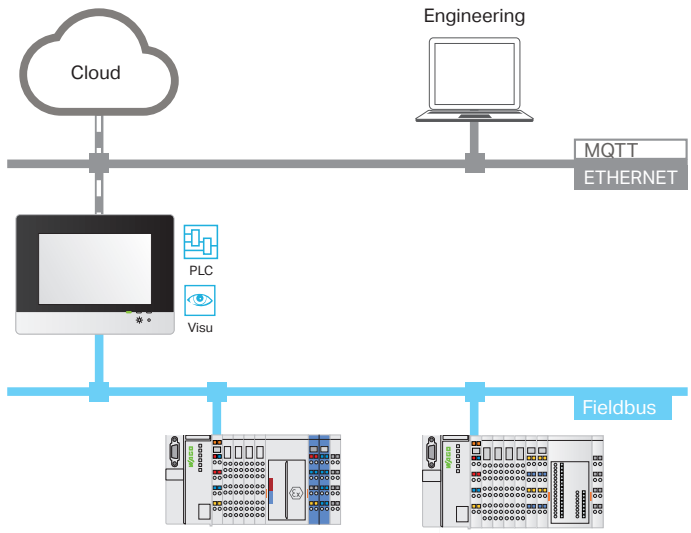
- PLC and HMI in one device
- Supports Docker Containers
- Fieldbus protocols supported: MODBUS/TCP, CANopen, Ethernet/IP-Adapter
- IIoT-ready (MQTT and OPC UA)
- Licensed options: EtherCAT Master, Sparkplug protocol

Control Panel

Control panels combine the features of a PLC and HMI into a single device, providing a compact footprint for your automation system. WAGO's e!COCKPIT software is used to develop both the control logic as well as the visualizations, optimizing system development. Leveraging the power of the Touch Panel's quad core processor, the Control panel is well equipped to offer high performance control as well as impeccable graphic resolution. The integrated web server extends the HTML5 web visualizations to other devices. Take advantage of the controllers' Linux® operating system via Docker Containers to run applications in parallel with your PLC code.

Your IIoT needs are met with the Control panel's support of MQTT and OPC UA protocols. Easily connect your plant floor data to your preferred Cloud service. Security is offered via TLS encryption plus an onboard Firewall and VPN.

Multiple fieldbus ports onboard support MODBUS/TCP, CANopen, and Ethernet/IP (adapter mode) protocols. An onboard configurable serial port (RS-232/-485) can be used to connect to additional field devices. Use the Control panel as your gateway between these fieldbuses. In addition, the onboard 4 configurable digital I/O points provide direct input into the controller and can be conveniently wired to commonly used devices.



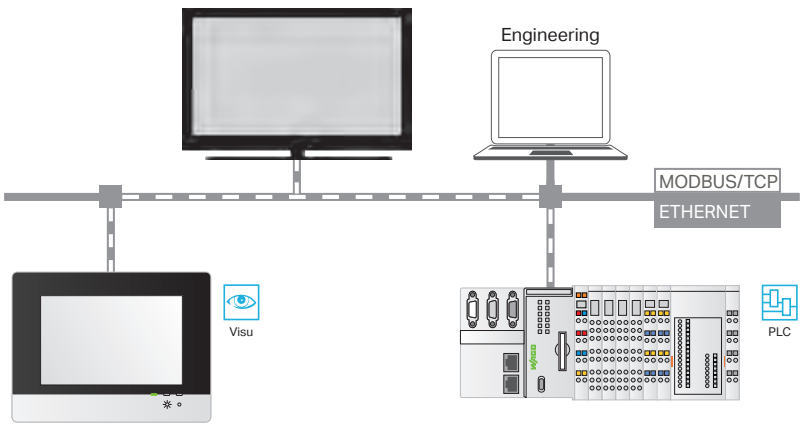
Your benefits:

- Visualization of fieldbus data
- Offloads the controller
- Supplementary visualization via integrated web server

Visu Panel

Visu panels display dynamic visualizations that are created with ***e!***COCKPIT software and are stored directly in the device's memory. The real-time data is collected from field devices via MODBUS/TCP and network variables. With this architecture, data from multiple PLCs can be aggregated into one operator interface.

The Visu panel has an integrated web server that can host the graphics to standard commercial mobile devices like tablets or smartphones or even a large screen smart TV, expanding the reach of your control strategy.



COCKPIT OPENVPN HTML IPSec

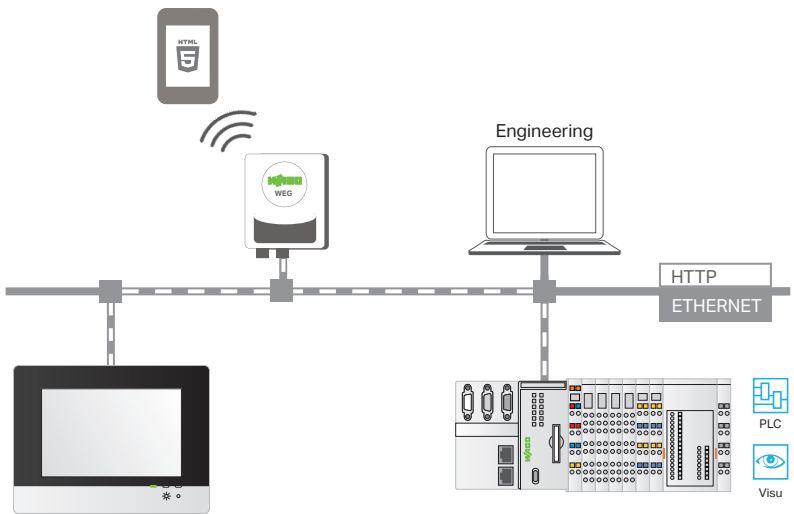
Your benefits:

- Web-based visualization based on open standards like HTML5
- High performance automation solutions in connection with WAGO PFC100 and PFC200 Controllers

Web Panel

An industrial web browser with high resolution graphics and touch screen, optimized to display web pages hosted from the PFC100 and PFC200 Controllers with onboard web servers. Web visualizations that are created with e!COCKPIT (Codesys V3) software and are based on state-of-the-art HTML5 technology. The visualizations are stored and hosted by the PFC controllers and can be used to monitor and control equipment via an elegant touch screen interface.

Users can take advantage of the HTML5 technology by displaying the same visualizations on other standard commercial mobile devices like tablets or smartphones.



OPENVPN™ HTML IPSec

Technology

Touch Panel 600			
Processor	Multi core Cortex A9	**Ethernet Ports**	2 (Switched or separated)
RAM Memory	2 GB	**Web server**	Onboard (Control and Visu panels)
Flash Memory	4 GB	**Firewall**	Integrated
Expansion	MicroSDHC (max 32 GB)	**VPN**	IPSec / OpenVPN
Programming	***e!****COCKPIT* for logic and graphic development	**Resolution (Colors)**	4.3“ 480 x 272 (16 million) 5.7“ 640 x 480 (262 thousand) 7.0“ 800 x 480 (16 million) 10.1“ 1280 x 800 (16 million) 15.6“ 1920 x 1080 (16 million) 21.5“ 1920 x 1080 (16 million)
Fieldbus	Visu Panel: MODBUS/TCP Control Panel: MODBUS/TCP, CANopen, Serial (Ethernet/IP and EtherCAT via adapter)	**Touch Screens**	Advanced: Capacitive multi-touch Standard/Marine: Resistive single-touch
IIoT Protocols	MQTT, OPC UA (Control panel only)	**Protection**	NEMA 4X / IP65 front (indoor use only), IP20 back
Ethernet Protocols	DHCP, DNS, FTP(S), HTTP(S), SSH	**OS**	Real-time Linux® with RT-Preempt

Touch Panels 600

Versions, Hardware Configuration and Functions

ADVANCED LINE; Multi-Touch				
Item number				
Size: inches (cm)	7″ (18 cm)	10.1″ (25.7 cm)	15.6″ (39.6 cm)	21.5″ (54.6 cm)
Hardware configuration PIO2 Visu Panel	762-5203/8000-0001	762-5204/8000-0001	762-5205/8000-0001	762-5206/8000-0001
Hardware configuration PIO3 Control Panel	762-5303/8000-0002	762-5304/8000-0002	762-5305/8000-0002	762-5306/8000-0002

STANDARD LINE; Single-Touch			
Item number			
Size: inches (cm)	4.3″ (10.9 cm)	5.7″ (14.5 cm)	7″ (18 cm)
Hardware configuration PIO1 Web Panel	762-4101	762-4102	762-4103
Hardware configuration PIO2 Visu Panel	762-4201/8000-0001	762-4202/8000-0001	762-4203/8000-0001
Hardware configuration PIO3 Control Panel	762-4301/8000-0002	762-4302/8000-0002	762-4303/8000-0002

More information is available at: **www.wago.us/touchpanel**

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	MARINE LINE; Single-Touch			
	4.3″ (10.9 cm)	**5.7″ (14.5 cm)**	**7.0″ (18 cm)**	**10.1″ (25.7 cm)**
	762-6201/8000-0001	762-6202/8000-0001	762-6203/8000-0001	762-6204/8000-0001
	762-6301/8000-0002	762-6302/8000-0002	762-6303/8000-0002	762-6304/8000-0002

	10.1″ (25.7 cm)	**15.6″ (39.6 cm)**	**21.5″ (54.6 cm)**
	762-4104		
	762-4204/8000-0001	762-4205/8000-0001	762-4206//8000-0001
	762-4304/8000-0002	762-4305/8000-0002	762-4306/8000-0002

Additional Licenses		
***e!RUNTIME*; PLC 600; single license**	2759-216/210-1000	Upgrading Visu Panel to Control Panel
***e!RUNTIME*; EtherCAT® Master 600; single license**	2759-266/210-1000	Adding an EtherCAT® Master to a Control Panel
***e!RUNTIME*; Sparkplug; single license**	2759-247/210-100	Adding MQTT-based Sparkplug to a Control Panel
***e!RUNTIME*; BACnet/IP 600**	2759-0286/0211-1000	Firmware upgrade BACnet/IP; for 0762-430x/8000-0002, 0762-530x/8000-000; unlimited amount of BACnet objects
***e!RUNTIME*; BACnet/IP 600 M**	2759-2286/0211-1000	Firmware upgrade BACnet/IP; for 0762-430x/8000-0002, 0762-530x/8000-000; up to 256 BACnet objects

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