EA PLC Series

Measure, monitor and visualize. The new PLC series expands the classic small control unit in control cabinet with an integrated color display inclusive touch. In addition, this solution enables visualization on up to 50 satellite displays. There, measured values can be displayed and settings can be made by touch. Thanks to edge computing, even complex and visually appealing screen layouts can be easily implemented.

WiFi, RS-485, Ethernet

Program your control tasks via USB and connect the desired satellite displays via RS-485 or wirelessly via WiFi/WLAN.
The basic version of the PLC-Core for DIN rail mounting offers 8 digital inputs, 4 relay outputs, 4 analog inputs (0-10V or 4-20mA) and one RS-232. Including Real-Time-Clock. The supply voltage is 12-24V.
In the control unit (core) there is a high quality TFT display with touch panel already to monitor the most important parameters.

Arbitrarily expandable

Different requirements need different displays. Choose from 7 different sizes - as a recessed solution, for wall mounting or as a U-plaster solution. All displays were developed in Germany. The support includes at any time a direct contact person from the development incl. assistance in programming.

	Core 2.8"	1.5"	2"	2.8"	3.5"	4.3"	5"	7"	10.1"	Unit
Resolution	320x240	240x240	320x240	320x240	480x320	480x272	800x480	1024x600	1280x800	Pixel
Dimension		44x42	65x43	84x58	100x65	114x84	136x96	190x125	260x185	mm
DIN-rail	yes									
U-Plaster mount		planned								
Wallmount						yes				
Integration		planned	planned	planned	yes	yes	planned	planned	planned	
I/O	8x In 4x Relay 2x 4-20mA 2x 0..10V 1x RS-232									
Temp. Range	-10..+50									°C
Supply Voltage	12-24V=									V
Display	IPS with PCAP, optically bonded					IPS with PCAP				

Individually networked

All process parameters are automatically synchronized with the satellite displays. This means that displaying current values can be flexibly implemented on one display, as well as individual settings for process parameters at another location. Each display follows its individual purpose: for service, work preparation, monitoring or management. Satellite displays are available in different sizes and designs.
The Windows Quick Programmer Tool
All touch and display functions as well as animations are freely programmable via the free Windows tool "PLCDesigner". Using a graphical WYSIWYG editor, individual pages can be created: here a background, there a logo and text, further a measured value, a slider, etc. The tool also includes a simulator, with which the result is immediately visible on the PC; including functionality via touch and the inputs and outputs on the core.

Wall mounting, DIN rail, Panel Mounting, flush-mounting

Different locations require different housings. Therefore DISPLAY VISIONS offers all sizes as a built-in solution for seamless integration into your device. Alternatively, solutions with a housing for surface mounting are also planned. For the small 1.5" display a flush mounting variant is also planned (U-plaster).
In each case, the front is made of scratch-resistant glass. Thanks to a touch-sensitive surface, direct and intuitive interactions are possible. The following formats are planned: 2", 2.8", 3.5", 4.3", 5", 7", 10.1". All brilliant displays with 1,000 cd/m² in outstanding IPS technology for an all-round viewing angle and stable colors.

Accessories

There are some accessories available to give you an easy start.

Power supply

EA PS24V-18W: The 24V plug-in power supply provides stable voltage. It comes with a plug for Europe, USA, Australia and UK. On DC site there's a 2.1mm hollow plug, cable is about 1m long. It got enough power to supply the Core plus 2-3 Satellite Displays.

Y cable:

EA KH21-102Y: This cable matches to the power supply above. It has 2 open ends to supply up to 2 Satellite Displays or 1 Core and 1 Satellite Display directly.

USB - RS485 interface

EA 9790-USB485: With this USB plug it becomes easy to connect the Core or Satellite Display to any PC for project update.