

Redefine your possibilities while staying ahead with innovation



Powering Business Worldwide

The face of today's industry – powerful

Intuitive user guidance, precise gesture-based controls, multimedia integration: the ease of use we experience every day on our smartphones and tablets has now become a reality in industrial applications as well. Our new XV300 panels with capacitive multi-touch technology are not just tremendously intuitive, they are redefining how man and machine interact. Streamlined, high-resolution devices ready to meet your needs even in harsh industrial conditions.



7" version



10.1" version



Adaptable

Our panels can be used in landscape or portrait mode, ensuring that you will be able to fit them where you want while getting the visualizations you need.



Heavy-duty

With their compact and sleek design, featuring a heavy-duty, flat, anti-glare toughened glass panel, these panels are ideal for industrial applications in harsh environments.



Hygienic

Control console mounting creates a flat surface with no sharp edges which meets strict hygienic requirements. XV300 devices with rear-mounting configuration can be seamlessly integrated into your machine systems.

and versatile



15.6" version

Numerous interfaces and expandable memory

An impressive variety of ports and interfaces provides maximum versatility for extensive networking. For example, the two Ethernet ports, which are independent from each other, make it possible to safely and reliably separate the open control layer from the function-specific field level.

An SD card slot makes it possible to expand the device's internal memory if necessary. In addition, it can be used to easily load system updates. Moreover, the entire system can be booted and run from an SD card if necessary.

Whether you need CANopen, J1939, Ethernet/IP, EtherCAT, Modbus (TCP/RTU), SmartWire-DT, or PROFIBUS-DP – the wide variety of fieldbus interfaces on XV300 devices ensures that you will be able to use the right protocol for your application.



Protected

Correctly installed the rear-mount versions reach degrees of protection of up to IP69K in the front. This means that the devices can be used in areas with splashing water or dust without hesitation.



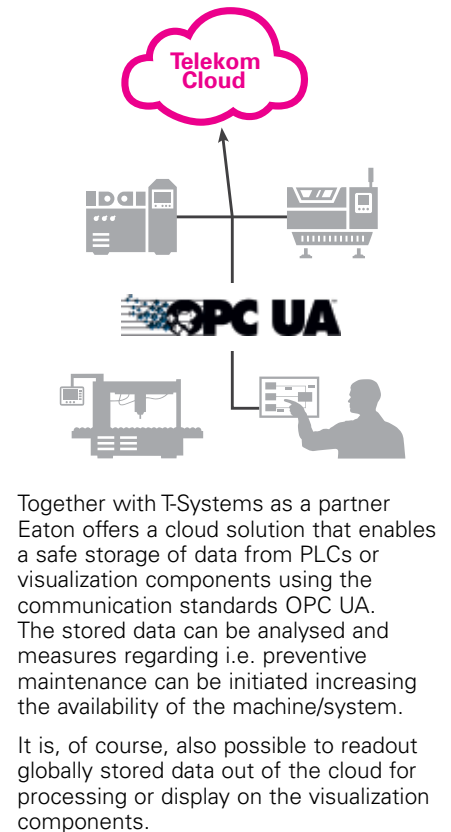
Robust

The 15.6" units feature a diecast aluminum housing making the devices to a highly stable solution within your system.



Powerful

High system performance makes it possible for our XV300 devices to have a highly responsive, state-of-the-art user interface with gestures. Videos, animations, PDF's and web contents can of course be replayed resp. displayed.



Together with T-Systems as a partner Eaton offers a cloud solution that enables a safe storage of data from PLCs or visualization components using the communication standards OPC UA. The stored data can be analysed and measures regarding i.e. preventive maintenance can be initiated increasing the availability of the machine/system.

It is, of course, also possible to readout globally stored data out of the cloud for processing or display on the visualization components.

GALILEO 10 visualization system: Runtime license integrated in XV300



GALILEO is an intuitive and powerful engineering environment that takes little time to master but meets every requirement involved in today's on-site machine operation. It is custom-tailored to the needs of the international machine and systems building industry and reflects the very latest developments in visualization technology.

The comprehensive integrated communications protocols make it possible to provide visualization for all common PLCs and controllers. Die integrierten, umfangreichen Kommunikationsprotokolle ermöglichen die Visualisierung aller marktgängigen Steuerungen.

Through activation of the Webvisu function of Galileo remote devices such as PC's, Tablet's or Smartphones can easily access the XV300 visualization. Based on the HTML5-standard all common web browsers (Safari, Chrome) are supported.

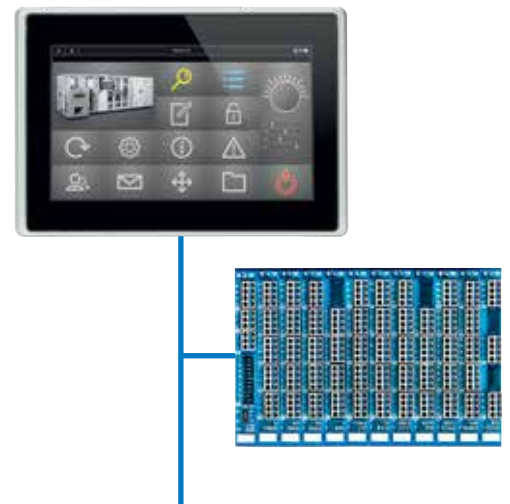


Configuration with XSOF-CODESYS-3 or -2 PLC programming software



When used to implement an efficient HMI PLC combination, the optional CODESYS-based PLC function enables users to develop powerful and comprehensive programming functions in line with the IEC 61131 international standard. In fact, with sophisticated technical features, ease of use, and the software's popularity as a programming system for automation components from a wide variety of manufacturers, it is no surprise that it has become the system of choice for many successful companies.

XV300 panels can be configured with either XSOF-CODESYS Version 2 or Version 3. This way, you can rest assured knowing that you will be able to use existing programs in the future while also having the option of implementing new designs with the latest tools at your disposal.



SmartWire-DT on board

SmartWire-DT supports Eaton's concept by helping create flexible automation solutions with fewer components and less engineering work: SmartWire-DT integrates communications and the I/O layer directly into the corresponding operating units, display devices, and switchgears. This enables PLCs to use SmartWire-DT to directly access digital and analog data from sensors all the way to circuit-breakers and lets systems efficiently process control commands, eliminating the need for a separate gateway and I/O layer.



Can be perfectly combined with the XN300 I/O system






XN300 is an ultra-compact, slice-card-based modular I/O system with a plug-in connection system that can be combined with XV300 products in order to create the perfect device combination for any application. Application-oriented functions result in lower device costs and make it possible to obtain the perfect system solution while taking up a minimal amount of space. Simply put, combining XV300 and XN300 is the perfect way to obtain the ideal solution for your application.



Further information on the XV300 series is available on our website www.eaton.eu/xv300.

Comprehensive product information, such as ordering information and data sheets, is provided within the Eaton online catalog <http://eaton.eu/ecat>.

Technical data

					
Model	XV-303-70-... (7" built-in versions)	XV-303-10-... (10" built-in versions)	XV-303-15... (15" built-in versions)	XV-313-70-... (7" rear-mount versions)	XV-313-10-... (10.1" rear-mount versions)
Display					
Screen diagonal	7" widescreen	10.1" widescreen	15.6" widescreen	7" widescreen	10.1" widescreen
Resolution	1024 x 600 pixels		1366 x 768 pixels	1024 x 600 pixels	
Backlight	LED				
Actuation					
Touch sensor	Multi-touch touch panel				
Technology	Projected Capacitive Touch (PCT)				
Enclosure					
Front glass	Non-reflective toughened glass				
Device dimensions (w x h x d)	196 x 135 x 51 mm	269 x 174 x 58 mm	404 x 255 x 68.5 mm	209 x 151 x 51 mm	282 x 190 x 58 mm
Installation cut-out (w x h)	183 x 122 mm +/-1	255.5 x 160.5 mm +/-1	388 x 239 mm +/-0.5	182.7 x 126.8 mm +/- 0.1	255.7 x 165.8 mm +/- 0.1
System					
Processor	800 MHz ARM Cortex-A9				
Memory (RAM)	512 MB				
Internal mass memory	1GB (SLC)				
Non-volatile data memory	128 kB				
Removable memory	1x SD card slot				
Interfaces onboard	1 x Ethernet 10/100 Mbps ^① 1 x USB Host 2.0 1 x USB Device 1 x RS232 1 x RS485 1x CAN				
Optional interfaces	1 x Ethernet 10/100 Mbps ^② Profibus DP SmartWire-DT				
Power supply	24 V DC				
Operating System	Windows Embedded Compact 7 Pro				
Visualization software	Integrated Galileo 10 runtime license				
PLC software	optional XSOFT-CODESYS-3 / XSOFT-CODESYS-2 runtime license				
Environment					
Approvals	CE, cUL, ATEX Zone 22				
Ship Approvals	DNV-GL (Environmental Category: C, EMC1) ^②				
Degree of protection	Front: IP65, Nema4X (indoors only), Nema12, IP20 on rear				
Operating temperature	0.. + 50° C				
Storage temperature	-20.. + 60° C				

① 15.6" versions 2 x Ethernet
② only on 7" and 10" devices

At Eaton, we're energized by the challenge of powering a world that demands more. With over 100 years experience in electrical power management, we have the expertise to see beyond today. From groundbreaking products to turnkey design and engineering services, critical industries around the globe count on Eaton.

We power businesses with reliable, efficient and safe electrical power management solutions. Combined with our personal service, support and bold thinking, we are answering tomorrow's needs today. Follow the charge with Eaton. Visit **eaton.eu**.

**To contact an Eaton salesperson or
local distributor/agent, please visit
www.eaton.eu/electrical/customersupport**

Eaton Industries GmbH
Hein-Moeller-Str. 7-11
D-53115 Bonn/Germany

© 2017 by Eaton Corporation
All rights reserved
Printed in Germany 01/18
Publication No.: BR050003EN / CSSC-864
ip January 2018
Article No.: Y7-179520-MK



Powering Business Worldwide



Eaton is a registered trademark.

All other trademarks are property
of their respective owners.