HMI-PLC



Whether in machine engineering, installations or in single applications there is seldom an application in which an HMI cannot simplify operation and through that relieve the operator.

Modern touch displays provide clear, flexible menu guidance in every wished for language and allows the machine manufacturer world wide sales of their machines with just one hard- and software solution.

From 3.5" to 15" touch display HMI-PLC you have for every machine the optimal solution. Control, positioning and communication are developed with XSoft-CoDeSys-2 based on IEC 61131-3. The visualisation comfortably created with Galileo.

Compact operator interface with lots of power

- Full graphical 3.5", 5.7" or 7"-Widescreen TFT display with resistive touch screen
- High performance 400MHz RISC-Processor for PLC applications
- Onboard memory of 128MB on demand expandable with a SD card
- Nominal installation depth
- Ethernet interface onboard, furthermore CAN, Profibus, RS232 or RS485 possible
- integrated gateway function

V\//100			
XV100			
3.5" mono	Version A	Version B (PLC)	
PLC function	no	integrated	
Front		ndard	
Touch		stive	
Display		display 3.5"	
Resolution		320x240	
Number of usable colors		yscales	
Backlight		mmable	
Protective panel		n-reflective	
Processor	32Bit RIS	C, 400MHz	
Memory	64MB	DRAM	
Internal Flash memory	64MB NAND Flash		
Retain memory	without	32kB NVRAM	
Optional memory cards	1x SD memory card slot		
Operating system	WinCE 5.0 C	Core (included)	
Interfaces onboard:			
- Ethernet	XV-102-A0-35MQR-10 Art.No. 141759	XV-102-B0-35MQR-10-PLC Art.No. 140012	
- Ethernet, RS232	XV-102-A3-35MQR-10 Art.No. 141821	XV-102-B3-35MQR-10-PLC Art.No. 140013	
- Ethernet, RS485	XV-102-A4-35MQR-10 Art.No. 141822	XV-102-B4-35MQR-10-PLC Art.No. 140014	
- Ethernet, Profibus	XV-102-A2-35MQR-10 Art.No. 141820	-	
- Ethernet, RS232, CAN	XV-102-A5-35MQR-10 Art.No. 141823	XV-102-B5-35MQR-10-PLC Art.No. 140015	
- Ethernet, RS485, CAN	-	XV-102-B6-35MQR-10-PLC Art.No. 140016	
- Ethernet, RS485, Profibus	-	XV-102-B8-35MQR-10-PLC Art.No. 140017	
Rated value	24VDC SEL V		
Protection type	IP65 front, IP20 rear		
Dimensions Device (WxHxD)	136 x 100 x 30mm		
Mounting cutout (WxH)	123 x 87mm		
Weight	approx. 0.25kg		



- 1 SD card
- 2 USB Device
- 3 Ethernet
- 4 onboard interfaces, depending on the version

XV100			
3.5" color	Version B	Version B (PLC)	
PLC function	upgradeable	integrated	
Front	Stan	dard	
Touch	resis	tive	
Display	TFT color d	isplay 3.5"	
Resolution	QVGA 3	20x240	
Number of usable colors	64k c	olors	
Backlight	LED, dir	nmable	
Protective panel	Glass, non	-reflective	
Processor	32Bit RISC	c, 400MHz	
Memory	64MB	DRAM	
nternal Flash memory	64 MB NAND Flash		
Retain memory	32kB N	VRAM	
Optional memory cards	1x SD memory card slot		
Operating system	WinCE 5.0 Co	pre (included)	
nterfaces onboard:			
- Ethernet	XV-102-B0-35TQR-10 Art.No. 140007	XV-102-B0-35TQR-10-PLC Art.No. 140018	
- Ethernet, RS232	XV-102-B3-35TQR-10 Art.No. 140009	XV-102-B3-35TQR-10-PLC Art.No. 140019	
- Ethernet, RS485	XV-102-B4-35TQR-10 Art.No. 140010	XV-102-B4-35TQR-10-PLC Art.No. 140020	
- Ethernet, Profibus	XV-102-B2-35TQR-10 Art.No. 140008	-	
- Ethernet, RS232, CAN	XV-102-B5-35TQR-10 Art.No. 140011	XV-102-B5-35TQR-10-PLC Art.No. 140021	
- Ethernet, RS485, CAN	-	XV-102-B6-35TQR-10-PLC Art.No. 140022	
- Ethernet, RS485, Profibus	-	XV-102-B8-35TQR-10-PLC Art.No. 140023	
Rated value	24VDC	SELV	
Protection type	IP65 front,	IP20 rear	
Dimensions Device (WxHxD)	136 x 100 x 30mm		
Mounting cutout (WxH)	123 x 87mm		
Weight	approx. 0.25kg		

The 3 display sizes by comparison:	The second s	5.7"	7" Wide
In the display sizes 5.7" and 7" the XV100 devices are additionally equipped with an USB-Host and RS232 interface.	3.5"	5.7	

XV100			
5.7" color	Version D	Version D (PLC)	
PLC function	upgradeable	integrated	
Front	Stan	dard	
Touch	resis	stive	
Display	TFT color c	lisplay 5.7"	
Resolution	VGA 64	40x480	
Number of usable colors	64k c	colors	
Backlight	LED, di	mmable	
Protective panel	Glass, nor	n-reflective	
Processor	32Bit RISC	C, 400MHz	
Memory	64MB DRAM		
Internal Flash memory	64 MB NAND Flash		
Retain memory	32kB NVRAM		
Optional memory cards	1x SD memory card slot		
Operating system	WinCE 5.0 C	pre (included)	
Interfaces onboard:			
- Ethernet, USB, RS232	XV-102-D0-57TVR-10 Art.No. 142530	-	
- Ethernet, USB, RS232, RS485	XV-102-D4-57TVR-10 Art.No. 150620	-	
- Ethernet, USB, RS232, RS485, CAN	XV-102-D6-57TVR-10 Art.No. 142531	XV-102-D6-57TVRC-10 Art.No. 142533	
- Ethernet, USB, RS232, RS485, Profibus	XV-102-D8-57TVR-10 Art.No. 142532	XV-102-D8-57TVRC-10 Art.No. 142534	
Rated value	24VDC SEL V		
Protection type	IP65 front, IP20 rear		
Dimensions Device (WxHxD)	170 x 130 x 39 mm		
Mounting cutout (WxH)	157 x 117 mm		
Weight	approx. 0.6kg		



- 1 SD card
- 2 USB Device
- 3 USB Host
- 4 Ethernet
- 5 onboard interfaces, depending on the version





XV100

7" widescreen color	Version D	Version D (PLC)	
PLC function	upgradeable integrated		
Front	Stan	dard	
Touch	resis	stive	
Display	TFT color display 7" Wide		
Resolution	WVGA 8	300x480	
Number of usable colors	64k c	olors	
Backlight	LED, dir	nmable	
Protective panel	Glass, nor	-reflective	
Processor	32Bit RISC	C, 400MHz	
Memory	64MB	DRAM	
Internal Flash memory	64 MB NA	AND Flash	
Retain memory	32kB NVRAM		
Optional memory cards	1x SD memory card slot		
Operating system	WinCE 5.0 Core (included)		
Interfaces onboard:			
- Ethernet, USB, RS232	XV-102-D0-70TWR-10 Art.No. 142535	-	
- Ethernet, USB, RS232, RS485	XV-102-D4-70TWR-10 Art.No. 150621	-	
- Ethernet, USB, RS232, RS485, CAN	XV-102-D6-70TWR-10 Art.No. 142536	XV-102-D6-70TWRC-10 Art.No. 142538	
- Ethernet, USB, RS232, RS485, Profibus	XV-102-D8-70TWR-10 Art.No. 142537	XV-102-D8-70TWRC-10 Art.No. 142539	
Rated value	24VDC SEL V		
Protection type	IP65 front, IP20 rear		
Dimensions Device (WxHxD)	210 x 135 x 38 mm		
Mounting cutout (WxH)	197 x 122 mm		
Weight	approx	. 0.6kg	



- 1 SD card
- 2 USB Device
- 3 USB Host
- 4 Ethernet
- 5 onboard interfaces, depending on the version

Compact and rugged

The XV150 devices impress with the nominal installation depth, the rugged metal case and the comprehensive basic equipment:
Display sizes 5,7, 8,4, and 10,4,
Nominal installation depth

- Mounting compatible with XV400 devices USB-Host, Ethernet and RS232 interface onboard ٠
- ٠
- ٠ Communication interfaces onboard depending on the type: RS485, Profibus and CAN

XV150				
5.7", 8.4" color	5.7"	5.7"	8.4"	8.4"
PLC funktion	upgradeable	integrated	upgradeable	integrated
Front		Stan	dard	
Touch		resis	stive	
Display	TFT color of	display 5.7"	TFT color of	display 8.4"
Resolution		VGA 64	10x480	
Number of usable colors		64k c	olors	
Backlight		LED, dir	nmable	
Protective panel		Glass, nor	n-reflective	
Processor		32Bit RISC	C, 400MHz	
Memory		64 MB	DRAM	
Internal Flash memory		64 MB NA	AND Flash	
Retain memory		32kB N	IVRAM	
Optional memory card	1x SD Memory Card			
Operating system		WinCE 5.0 Co	ore (included)	
Interfaces onboard:				
- Ethernet, USB, RS232	XV-152-D0-57TVR-10 Art.No. 150525	-	XV-152-D0-84TVR-10 Art.No. 150601	-
- Ethernet, USB, RS232, RS485	XV-152-D4-57TVR-10 Art.No. 150526	-	XV-152-D4-84TVR-10 Art.No. 150602	-
- Ethernet, USB, RS232, RS485, CAN	XV-152-D6-57TVR-10 Art.No. 150527	XV-152-D6-57TVRC-10 Art.No. 150529	XV-152-D6-84TVR-10 Art.No. 150603	XV-152-D6-84TVRC-10 Art.No. 150605
- Ethernet, USB, RS232, RS485, Profibus	XV-152-D8-57TVR-10 Art.No. 150528	XV-152-D8-57TVRC-10 Art.No. 150600	XV-152-D8-84TVR-10 Art.No. 150604	XV-152-D8-84TVRC-10 Art.No. 150606
Rated value		24VDC	SELV	
Protection type		IP65 front	, IP20 rear	
Dimensions device (WxHxD)	212 x 156 x 53 mm		275 x 208 x 53 mm	
Mounting cutout (WxH)	198 x 1	142 mm	261 x 194 mm	
Weight	1.3	3kg	2.1	1kg

XV150 10.4" color	10.4"	10.4"	
PLC funktion	upgradeable	integrated	
Front		Indard	
Touch		stive	
Display	TFT color d	isplay 10.4"	
Resolution		40x480	
Number of usable colors	64k d	colors	
Backlight	LED, di	mmable	
Protective panel	Glass, nor	n-reflective	
Processor	32Bit RISC, 400MHz		
Memory	64 MB DRAM		
Internal Flash memory	64 MB NAND Flash		
Retain memory	32kB NVRAM		
Optional memory card	1x SD Memory Card		
Operating system	WinCE 5.0 C	ore (included)	
Operating onboard:			
- Ethernet, USB, RS232	XV-152-D0-TVR-10 Art.No. 150607	-	
- Ethernet, USB, RS232, RS485	XV-152-D4-10TVR-10 Art.No. 150608	-	
- Ethernet, USB, RS232, RS485, CAN	XV-152-D6-10TVR-10 Art.No. 150609	XV-152-D6-10TVRC-10 Art.No. 150611	
- Ethernet, USB, RS232, RS485, Profibus	XV-152-D8-10TVR-10 Art.No. 150610	XV-152-D8-10TVRC-10 Art.No. 150612	
Rated value	24VDC SEL V		
Protection type	IP65 front, IP20 rear		
Dimensions device (WxHxD)	345 x 260 x 54 mm		
Mounting cutout (WxH)	329 x 238 mm		
Weight	3.0	Dkg	



Flexible communication

The new XV200 touch display device series offers either a fully graphical 5.7" FSTN monochrome display with 256 grayscales or a fully graphical 5.7" color display with 256 colors, industrial resistive touch technology as well as a wide range of communication and network options. The touch-sensitive display ensures intuitive operation and visualization. Language-neutral and self-explanatory touch switches can be created to provide clearly designed operating screens. PLC functionality can be implemented on the XV200 devices if required. All devices come with an Ethernet and USB Device interface. Depending on the device type, CAN, Profibus (MPI/PPI/DP) or RS232 can be provided as additional interfaces.

XV200				
5.7" mono	XV-230-57CNN-1-10	XV-230-57MPN-1-10	XV-232-57BAS-1-10	
PLC function		upgradeable		
Front		Standard		
Touch		resistive		
Display		FSTN-LCD (mono display) 5.7"		
Resolution		QVGA 320 × 240		
Number of usable colors		256 grayscales		
Backlight		1 CCFL, dimmable		
Protective panel		Glass, non-reflective		
Processor	RISC 32Bit, 200MHz			
Memory	32MB			
Retain memory	100Byte			
Internal Flash memory	1.5MB linear			
Optional memory cards	1 x CompactFlash			
Operating system		WinCE		
Interfaces onboard	Ethernet, CAN			
Slots for communication modules		-	1	
Rated value	24VDC			
Protection type	IP65 front, IP20 rear			
Dimensions of device (WxHxD)	212 x 156 x 55mm			
Mounting cutout (WxH)	198 x 142mm			
Weight	approx. 0.7 kg			
Article no.	139951 139952 139950			



- 1 RS232
- 2 CAN or Profibus
- 3 Ethernet
- 4 CompactFlash

XV200				
5.7" color	XV-252-57CNN-1-10	XV-252-57MPN-1-10		
PLC function	upgrac			
Front	Stan			
Touch	resis			
Display	CSTN-LCD (cold			
Resolution	QVGA 32	20 x 240		
Number of usable colors	256 c	256 colors		
Backlight	1 CCFL, dimmable			
Protective panel	Glass, non-reflective			
Processor	RISC 32Bit, 200MHz			
Memory	32MB			
Retain memory	100Byte			
Internal Flash memory	1.5 MB linear			
Optional memory cards	1 x CompactFlash			
Operating system	Win	CE		
Interfaces onboard	Ethernet, RS232, CAN	Ethernet, RS232, Profibus		
Slots for communication modules	-			
Rated value	24VDC			
Protection type	IP65 front, IP20 rear			
Dimensions of device (WxHxD)	212 x 156 x 55mm			
Mounting cutout (WxH)	198 x 142mm			
Weight	approx. 0.7 kg			
Article no.	139956 139957			

Portrait format

The panels can be used in portrait format (rotated 90°) if required.



Standard system with infra-red and resistive touch for worldwide use

Thanks to the extensive range of interfaces available onboard, the XVS400 compact devices can be adapted to the world's leading automation systems. The Profibus Master interface provided and the robust infra-red touch make the XVS devices highly flexible alternatives for the visualization and automation world. With versatile Ethernet and USB interfaces as well, these products offer the most advanced networking options. Devices with color screens and a screen diagonal of 5.7" to 12.1" are available. The integral IEC 61131-3 compliant PLC supports all the programming languages of the standard including structured text and sequential function chart for the optimum implementation of the control task.

XVS400 5.7, 8.4, 10.4, color	5.7"	8.4"	10.4"	
PLC function		upgradeable		
Front		Standard		
Infra-red touch, safety glass, non-reflective	XVS-460-57MPI-1-10 139970	XV-460-84MPI-1-10 139971	XVS-440-10MPI-1-10 139973	
Resistive touch, glass, non-reflective	XVS-450-57MPI-1-10 139969	-	XVS-430-10MPI-1-10 139972	
Display	5.7" TFT-LCD color	8.4" TFT-LCD color	TFT-LCD color 10.4"	
Resolution	QVGA 320 x 240	QVGA 320 × 240 VGA 640 × 480		
Number of usable colors		65'536		
Backlight	LED, dimmable 2 CCFL, dimmable			
Processor	RISC 32Bit, 400MHz			
Memory	64MB			
Retain memory		32kB		
Internal Flash memory		1.5MB linear		
optional memory cards	1 x Comp	pactFlash	2 x CompactFlash	
Operating system		WinCE		
Interfaces onboard	Etherne	et, RS232, USB-Host, USB-Device,	Profibus	
Rated value		24VDC		
Protection type	IP65 front, IP20 rear			
Dimensions device (WxHxD)	212 x 156 x 55 mm	275 x 208 x 75 mm	345 x 260 x 67mm	
Mounting cutout (WxH)	198 x 142mm	261 x 194 mm	329 x 238mm	
Weight	approx. 1.8 kg	approx. 2.6 kg	approx. 3.7kg	

XVS400 12.1," 15" color	12.1"	15"	
PLC function	upgrac	deable	
Front	Stan	dard	
Infra-red touch, safety glass, non-reflective	XVS-440-12MPI-1-10 139975	XVS-460-15MPI-1-10 139976	
Resistive touch, glass, non-reflective	XVS-430-12MPI-1-10 139974	-	
Display	TFT-LCD color 12.1"	TFT-LCD color 15"	
Resolution	SVGA 800 × 600	XVGA 1024 x 768	
Number of usable colors	65'5	536	
Backlight	2 CCFL, dimmable	4 CCFL, dimmable	
Processor	RISC 32Bit	t, 400MHz	
Memory	641	ИВ	
Retain memory	32	kB	
Internal Flash memory	1.5MB	linear	
optional memory cards	2 x Comp	pactFlash	
Operating system	Wir	CE	
Interfaces onboard	Ethernet, RS232, USB-Host, USB-Device, Profibus		
Rated value	24VDC		
Protection type	IP65 front, IP20 rear		
Dimensions device (WxHxD)	361 x 279 x 67mm	427 x 332 x 73mm	
Mounting cutout (WxH)	344 x 262mm	410 x 315mm	
Weight	approx. 4.5kg	approx. 5.8kg	



- 1 RS232
- 2 Ethernet
- 3 USB Device
- 4 2x USB Host
- 5 Profibus

The universal professional

The devices of the XV400 series offer a wide range of communication options. One or two optional communication modules, enabling eight communications at the same time, as well as CAN, Ethernet 10/100Mbit, USB Host, USB Device, RS232 directly onboard ensure maximum flexibility, whether as HMI, HMI-PLC, panel with gateway function or as a connection via Ethernet TCP/ IP to the control level. Onboard functions such as WEB browser, FTP server, remote client/ server or OPC client offer not only new networking options and programming options, they also provide customers and users with a considerable innovation edge for their automation solution.

XV400 5.7", 8.4" color	5.7"	5.7" stainless steel	8.4"
PLC function		upgradeable	
Front	Standard	Stainless steel	Standard
Infra-red touch, safety glass, non-reflective	XV-460-57TQB-1-10 139897	XV-460-57TQB-1-50 139898	XV-460-84TVB-1-10 139900
Resistive touch, glass, non-reflective	XV-450-57TQB-1-10 139899	-	-
Display	TFT-LCD	color 5.7"	TFT-LCD color 8.4"
Resolution	QVGA 3	20 x 240	VGA 640 x 480
Number of usable colors	65'536		
Backlight	LED, dimmable 2 CCFL, dimmab		
Processor	RISC 32Bit, 400MHz		
Memory	64MB		
Retain memory		32kB	
Internal Flash memory	1.5MB linear		
Optional memory cards		1 x CompactFlash	
Operating system		WinCE	
Interfaces onboard	Ether	net, RS232, USB-Host, USB-Device	, CAN
Slots for communication modules		1	
Rated value	24VDC		
Protection type	IP65 front, IP20 rear		
Dimensions device (WxHxD)	212 x 156	6 x 76mm	275 x 208 x 95mm
Mounting cutout (WxH)	198 x 1	142mm	261 x 194mm
Weight	approx. 1.9kg	approx. 2.3kg	approx. 3.0kg



- 1 RS232
- 2 CAN
- 3 USB Host
- 4 Ethernet
- 5 Communication module
- 6 CompactFlash

XV400 10.4," 12.1," color	10.4"	10.4" stainless steel	12.1"	12.1" stainless steel	
PLC function		upgrad	deable		
Front	Standard	Stainless steel	Standard	Stainless steel	
Infra-red touch, safety glass, non-reflective	XV-440-10TVB-1-10 139904	XV-440-10TVB-1-50 139908	XV-440-12TSB-1-10 139911	XV-440-12TSB-1-50 139915	
Resistive touch, glass, non-reflective	XV-430-10TVB-1-10 139902	-	XV-430-12TSB-1-10 139909	-	
Display	TFT-LCD (color 10.4"	TFT-LCD o	color 12.1"	
Resolution	VGA 64	40 x 480	SVGA 8	00 x 600	
Number of usable colors	65'536				
Backlight	2 CCFL, dimmable				
Processor	RISC 32Bit, 400MHz				
Memory		64	MB		
Retain memory		32	kВ		
Internal Flash memory		1.5MB linear			
Optional memory cards		2 x CompactFlash			
Operating system	WinCE				
Interfaces onboard		Ethernet, RS232, USB-	Host, USB-Device, CAN		
Slots for communication modules	2				
Rated value	24VDC				
Protection type	IP65 front, IP20 rear				
Dimensions device (WxHxD)	345 x 260 x 93mm 361 x 279 x 93mm			9 x 93mm	
Mounting cutout (WxH)	329 x 3	238mm	344 x 2	262mm	
Weight	approx. 4.1kg	approx. 5.3kg	approx. 4.5kg	approx. 5.7kg	

IP69K

Protected against the ingress of water with highpressure and steam

The XV400 5.7" with stainless steel front is designed for areas where highpressure cleaners are used such as in the food industry. The IP69K protection class even guarantees absolute water tightness in applications subject to frequent cleaning.

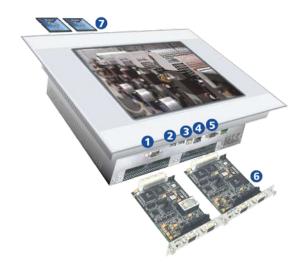
XV-460-57TQB-1-50

EX-Zone 1 For use in explosive atmosphere

XV400 10.4" / 12.1" with stainless steel front are designed for use in areas where an explosive atmosphere consisting of a mixture of air and flammable substances in the form of gas, vapor or mist is likely to occur in normal operation occasionally, such as in the chemical, pharmaceutical and food industry as well as in oil refineries. When integrated in pressurized enclosures, this device meets the protection requirements for Zone 1, category 2G EEx p.

XV-440-10TVB-1-50 XV-440-12TSB-1-50

XV400		
15" color	15"	15" stainless steel
PLC function	upgrac	
Front	Standard	Stainless steel
Infra-red touch, safety glass, non-reflective	XV-460-15TXB-1-10 139916	XV-460-15TXB-1-50 139918
Resistive touch, glass, non-reflective	-	-
Display	TFT-LCD	color 15"
Resolution	XGA 1'02	24 x 768
Number of usable colors	65'5	536
Backlight	4 CCFL, c	limmable
Processor	RISC 32Bit	, 400MHz
Memory	64N	ЛВ
Retain memory	32	«В
Internal Flash memory	1.5MB	linear
Optional memory cards	2 x Comp	actFlash
Operating system	Wir	CE
Interfaces onboard	Ethernet, RS232, USB-H	lost, USB-Device, CAN
Slots for communication modules	2	
Rated value	24V	DC
Protection type	IP65 t IP20	
Dimensions device (WxHxD)	427 x 332	x 99mm
Mounting cutout (WxH)	410 x 315mm	
Weight	approx. 6.2kg	approx. 7.5kg



- 1 CAN
- 2 2 x USB Host
- 3 USB Device
- 4 Ethernet
- 5 RS232
- 6 2 x slot for communication module
- 7 2 x CompactFlash

The control panel XVM400 is a portable display and operation panel for industrial applications. Already included in the delivery is the Galileo runtime. With this industrial proven visualization tool you can create in shortest time considerable sized and complex applications. Galileo is designed to work in every market segment and acts as an universal projecting environment for all Eaton Automation products. The Ethernet interface offers a high number of protocols to established control systems. Also the hardware is designed to cover any eventuality that comes up: A robust concept of the panel and patented display guarantees a save fall from a height of up to 1.5 m. Operation with the left and right hand, a good readable display, variable cable output, different holding possibilities, three-step acknowledgement button, integrated emergency stop and a further 31 buttons that can be accessed directly in Galileo guarantees a maximum of possibilities.

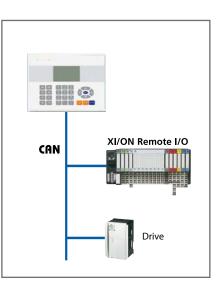
XVM400 6.5" color	XVM-430-65TVB-1-11	XVM-450-65TVB-1-11	XVM-410-65TVB-1-11
PLC function		no	
Front		Standard	
Touch		Resistive	
Display		TFT-LCD (color display) 6.5"	
Resolution		VGA 680x480	
Number of usable colors		65536 colors	
Backlight		2 CCFL, dimmable	
Operation elements	2 3-position enabling switches, twin circuit; temergency stop switch, twin circuit	2 3-position enabling switches, twin circuit; temergency stop switch, twin circuit; key switch, (3 positions); handwheel	2 3-position enabling switches, twin circuit; key switch, (3 positions); handwheel
Processor		Xscale PXA 270, 416 MHz	
Memory		64MB, 64 MB SDRAM	
Optional memory cards		-	
Operating system		WinCE	
Visualization software		Galileo	
Interfaces onboard		Ethernet, USB-Host, RS232	
Slots for communication modules		-	
Rated value		24VDC	
Protection type		IP65	
Dimensions device		Ø 250 mm, height 125 mm	
Weight		approx. 1.3 kg	
Article no.	139996	139998	139997



The XVC100 compact display PLC integrates an operator panel with text display and a powerful compact PLC in one device. This device concept offers a wide range of automation and networking options. A fully-fledged compact PLC with digital and analog inputs and outputs is integrated behind the membrane keyboard with an 8 x 20 character display. The integrated CAN bus allows the connection of remote peripheral devices. All connectors can be accessed from the rear. The PLC is programmed in compliance with the IEC 61131-3 industrial standard, thus turning the XVC100 display PLC into a universal device for automation applications. A user-friendly PLC function library is available for the simple and efficient programming of visualization functions.

XVC100	ALL CONTRACTOR
mono	XVC-101-C192K-K82
PLC function	integrated
Front	Standard
Operation	Membrane keyboard
Display	Passive Matrix Mono LC-Display
Active display area	approx. 71 x 39 mm
Resolution	128 x 64
Backlight	LED
Number of keys	28, (9 with LED)
Processor	c166
Data / program memory	56 kB / 384 kB
Retain memory	8 kB
Optional memory card	1 x CompactFlash
I/Os onboard	10 digital inputs 8 digital outputs, 24 V/0,5 A 8 digital inputs/outputs configurable 2 analog inputs, 0 – 10 V/10 Bit 2 analog outputs, +/-10 V/12 Bit 2 counter inputs, 50 kHz 2 interrupt inputs 1 encoder inputs, 50 kHz
Interfaces onboard	CAN, RS232
Rated value	24VDC
Protection type	IP65 front, IP20 rear
Dimensions device (WxHxD)	212 x 156 x 60 mm
Weight	approx. 0.9 kg
Article no.	139929





The XVC100 provides the machine and system builder with a low-cost device for a wide range of tasks whilst still offering the tried and tested features and the user-friendly project design features. The rugged and compact design enables applications that were previously impossible due to space or price restrictions.

Licensing XV100, XV150, XV200, XVS400 and XV400

The range of functions possible for each device is determined by means of license points that are uniquely assigned to the device concerned. Additional license points can be assigned to the device by means of license product papers (see Accessories XV license product papers). Licensing is carried out via the Internet at www.eaton-automation.com/license.

Entering the license product paper and device series number on the web page provides you with the license code and a license confirmation via email for your production documents. You enter the license code via the licensing menu on the device and thus increase the number of internal license points on the device.

Number of required license points depending on the required functionality:

Runtime / Tools	Onboard interface	License points
GALILEO-Runtime	-	100
EPAM-Runtime	-	100 1)
XSoft-CoDeSys-2-Runtime	-	100
CE Telediag	RS232	40
S7 PG Router	Ethernet and Profibus	80
CAN Monitor	CAN	-
DXS Remote (DXS communication)	Ethernet	80
Galileo Open (for XP700 / standard PC)	-	-

		License points		
Communication	Onboard interface	XSoft-CoDeSys-2	GALILEO	EPAM
Programming access	Ethernet	0	0	0
CoDeSys-SYMArti local (GALILEO/EPAM <-> XSoft-CoDeSys-2)	Local	0	0	0
CoDeSys-SYMArti external	Ethernet	0	40	0
A.Bradley DF1	RS232	-	40	-
A.Bradley EtherNet/IP	Ethernet	-	120	-
Beckhoff TwinCAT ADS	Ethernet	-	80	-
CANopen, Master	CAN	0	-	-
CANopen, Device (Slave)	CAN	0	40	-
DXS Remote (DXS communication)	Ethernet	-	80	-
Modbus TCP/IP	Ethernet	-	80	-
Modbus RTU	RS232	-	40	-
Eaton easy800/MFD	RS232	-	40	-
Eaton Sucom A	RS232	-	40	-
Eaton Suconet K on XVH342-57SKS	Suconet K	-	0	-
Profibus DP-Master (1,5 MBaud)	Profibus	40	-	-
Siemens Industrial Ethernet	Ethernet	-	80	-
Siemens MPI	Profibus	-	40	-
Siemens PPI	Profibus	-	40	-
Siemens S7 Profibus Standard Profile	Profibus	-	40	-

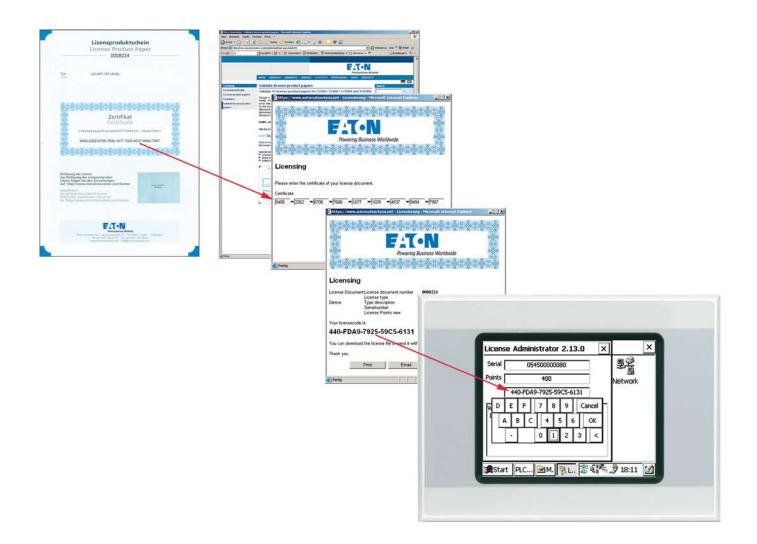
Notes: 1) A LIC-HMI-EPAM-STD license product paper is required for the operation of EPAM runtime on XV400, XVS400 and XVH300 devices. The sticker provided on the license product paper must be affixed to the device. Validation of the certificate via the Internet is unnecessary.

Calculation of the required license points

To use the PLC function in accordance with the applicable license conditions, the device license must be extended explicitly using a specific license product paper, see table "XV license product papers". These license product papers contain a PLC license sticker which must be affixed to the device. Add the required license points for each of the external communication options you use. Communication to several devices with the same protocol only has to be counted once. Deduct the number of points already on the device (e.g. 140) from the total. The resulting difference is the number of license points that must be added using the license product papers.

Validating license product papers

The validation of license product paper couldn't be simpler. Once you have entered the license product paper and the device series number on the Internet page www.eaton-automation.com/license the license code is issued immediately for activating the device functions required. After the license code is entered on the XV100, XV150, XV200, XVS400 or XV400 device, the additional license points are added directly to the device.



Note: You can find various licensing examples on our website www.eaton-automation.com: Licensing - License Produkt Papers - Examples.

Accessories

Description	Type / Article no.	For use with	
Windows CE licenses			
WinCE 3.0 Standard runtime license with license sticker	LIC-OS-CE30 140405	XV-2, XVS-4, XV-4	
WinCE 5.0 Core runtime license with license sticker	LIC-OS-CE50-C 140406	XV-1, XV-2, XVS-4, XV-4	
WinCE 5.0 Professional Plus runtime license with license sticker	LIC-OS-CE50-PP 140408	XV-2, XVS-4, XV-4	
Memory cards		I	
SD memory card, min. 128MB, without operating system	MEMORY-SD-A1-5 139807	XV-1	
CompactFlash, min. 128MB, without operating system	MEMORY-CF-A1-S 139528	XV-2, XVS-4, XV-4	
CompactFlash, min. 128MB, bootable with WinCE 3.0, without WinCE license	OS-FLASH-A1-S 140366	XV-2, XVS-4, XV-4	
CompactFlash, min. 128MB, bootable with WinCE 5.0, without WinCE license	OS-FLASH-A1-C 140368	XV-2, XVS-4, XV-4	
XV license product paper			
License product paper 40 POINTS	LIC-OPT-1ST-LEVEL 140391	XV-1, XV-2, XVS-4, XV-4	
License product paper 80 POINTS	LIC-OPT-2ND-LEVEL 140392	XV-1, XV-2, XVS-4, XV-4	
License product paper 160 POINTS	LIC-OPT-3RD-LEVEL 140393	XV-2, XVS-4, XV-4	
License product paper PLC with license sticker COMPACT	LIC-OPT-MXP-COMPACT 142581	XV-1	
License product paper PLC with license sticker LIGHT	LIC-OPT-MXP-LIGHT 140388	XV-2xx-57BAS, XV-2xx-57CNN	
License product paper PLC with license sticker SMALL	LIC-OPT-MXP-SMALL 140389	XV-2xx-57MPN, XVS-4xx-57, XVS-4xx-8, XV-4xx-57, XV-4xx-8	
License product paper PLC with license sticker MEDIUM	LIC-OPT-MXP-MEDIUM 140390	XVS-4xx-10, XVS-4xx-12 XV-4xx-10, XV-4xx-12	
Communication modules for XV400 devices			
Multiprotocol board	COM-MPB1-TP 139850	XV-4	
Multiprotocol board MPI	COM-MPB2-TP 139847	XV-4	
Profibus DP-Master (12 MBaud)	COM-DPM-MC2 139853	XV-4	
Profibus DP-Slave (12 MBaud)	COM-PDT-TP 139849	XV-4	
EIB (3release)	COM-EIB2-TP 139852	XV-4	
Accessories for XVM400 (Mobile Panel)			
Wall holder for mobile panel incl. cable holder	KETOP WB095 139999	XVM-4	
Terminal box mobile panel, outside control panel IP 65	KETOP CB211 140002	XVM-4	
Cable set mobile panel 5m	KETOP TT050 MV1 140000	XVM-4	
Cable set mobile panel 10m	KETOP TT100 MV1 140001	XVM-4	
Cable set mobile panel 15m	KETOP TT150 MV1 140005	XVM-4	
Strapping plug emergency switch mobile panel	KETOP BC001 140004	XVM-4	
Spare Key, 2 pieces	KETOP EKY001 140006	XVM-45x, XVM-41x	

Accessories

Description	Type / Article no.	For use with
Additional fixing brackets		
Additional fixing brackets for IP65	ACCESSOIRES-HKS-IP65 139809	XVS-4xxx XV-4
Set of retaining brackets for mouinting the device (4 retaining brackets with threaded pin)		
Batteries		
Spare batteries	ACCESSOIRES-BAT01x 139523	XVC-1
Device accessories (supplied with the device)		
Device accessories as replacement - 8 Retaining brackets for mounting the device - 8 Threaded pins for mounting the device - 1 Sealing strip for mounting the device - 1 Power supply connector - 1 Touch pen	ACCESSOIRES-TP-57-KG-1 139837	XV-2
 Device accessories as replacement 1 Set of retaining brackets for mounting the device (4 retaining brackets with threaded pin) 1 Sealing strip for mounting the device 1 Power supply connector 1 Touch pen 	ACCESSOIRES-TP-57-RES-1 139827	XVS-4xx-57 XV-4xx-57
 Device accessories as replacement 2 Set of retaining brackets for mounting the device (4 retaining brackets with threaded pin) 1 Sealing strip for mounting the device 1 Power supply connector 1 Touch pen 	ACCESSOIRES-TP-10/12-RES-1 139831	XVS-4xx-10 XVS-4xx-12 XV-4xx-10 XV-4xx-12

List of the most common protocols:

Protocol	Required communication module for the XV400 devices
EIB (3rd release)	COM-EIB2-TP
Matushita FP Series	COM-MPB1-TP / COM-MPB2-TP
Mitsubishi A-Serie / F-Series	COM-MPB1-TP / COM-MPB2-TP
Eaton Suconet	COM-MPB1-TP / COM-MPB2-TP
Omron C- H- K-Series	COM-MPB1-TP / COM-MPB2-TP
Telemecanique Unitelway	COM-MPB1-TP / COM-MPB2-TP
Profibus DP-Master (12MBaud)	COM-DPM-MC2
Profibus DP-Slave (12MBaud)	COM-PDP-TP
Siemens MPI	СОМ-МРВ2-ТР

