

#### Touch panel, 24 V DC, 10.4z, TFTcolor, ethernet, RS232, (PLC)



 Part no.
 XV-152-D0-10TVR-10

 Article no.
 150607

 Catalog No.
 XV-152-D0-10TVR-10

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Product range		XV150 10.4"
Product range		XV-152
Function		HMI-PLC (PLC retrofitted by user)
Common features of the model series		Ethernet interface USB device USB Host Slot for SD card UL508, cUL approvals
Display - Type		Color display, TFT
Touch-technology		Resistive-Touch
Number of colours		64 k Colours
Resolution	Pixel	VGA 640 x 480
Portrait format		yes
Screen diagonal	Inch	10.4
Model		Metal enclosure and front plate
Operating system		Windows CE 5.0 (licence incl.)
PLC-licence		Can be fitted by user with article no. 142581 LIC-PLC-MXP-COMPACT
License certificates for onboard interfaces		Not required
built-in interfaces		1 x Ethernet 10/100 Mbps 1 x RS232 1 x USB host 2.0 1 x USB device
Front type		Standard front with standard membrane (fully enclosed)
Utilization		Flush mounting
Slots		for SD card: 1
Memory card automation		Optionally with SD card -> article no. 139807
Pluggable communication cards (optional)		no
Touch sensor		Glass with film
Heat dissipation	W	14.5

# Technical data

Display		
Display - Type		Color display, TFT
Screen diagonal	Inch	10.4
Resolution	Pixel	VGA 640 x 480
Visible screen area	mm	211 x 158
Number of colours		64 k Colours
Contrast ratio (Normally)		Normally 300:1
Brightness	cd/m <sup>2</sup>	Normally 250
Back-lighting		LED dimmable via software
Service life of back-lighting	h	Normally 40000
Resistive touch protective screen		Touch sensor (glass with foil)
Operation		
Technology		Resistive-Touch 4 wire
Touch sensor		Glass with film
System		
Processor		RISC CPU, 32 Bit, 400 MHz
Internal memory		DRAM (OS, Program and data memory): 64 MByte NAND-Flash (can be used for data backup): approx. 64 MByte available NVRAM (Retain data): 125 kByte NOR-Flash: 2 MByte

External memory			SD Memory Card Slot: SDA Specification 1.00
Cooling			Fanless CPU and system cooling, natural convection-based passive cooling
Back-up of real-time clock			. amoss of a and system cooming, flatural convection baseu passive country
			CD 2020/100 A/h)
Battery (service life)			CR 2032 (190 mA/h), zero maintenance (soldered)
Backup (time at zero voltage)			Normally 10 years
Operating system			Windows CE 5.0 (licence incl.)
Engineering			0.1111.50
Visualisation software			GALILEO EPAM XSOFT-CODESYS-2 XSOFT-CODESYS-3
PLC-Programming software			XSOFT-CODESYS-2 XSOFT-CODESYS-3
Interfaces, communication			
built-in interfaces			1 x Ethernet 10/100 Mbps 1 x RS232 1 x USB host 2.0 1 x USB device
PLC-licence			Can be fitted by user with article no. 142581 LIC-PLC-MXP-COMPACT
USB device			USB 2.0, not galvanically isolated
Slots			for SD card: 1
Ethernet			100Base-TX/10Base-T
Power supply			
Nominal voltage			24 V DC SELV (safety extra low voltage)
permissible voltage			Effective: 19.2-30.0 V DC (rated operating voltage -20%/+25%) Absolute with ripple: 18,0-31,2 V DC Battery powered: 18,0-31,2 V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms
Voltage dips		ms	≤ 10 ms from rated voltage (24 V DC) 5 ms from undervoltage (19.2 V DC)
Power consumption	P <sub>max</sub> .	W	12
Note on power consumption			Basic device USB Slave to USB Host: 2.5 Total: 9.5
Heat dissipation		W	14.5
Note on heat dissipation			Heat dissipation with power consumption for 24 V 12 W for basic device + 2.5 W for USB module
Current consumption	I	Α	Continuous current = 0.6 (24 V DC)
Siemens MPI, (optional)			yes
Type of fuse			Yes (fuse not accessible)
Potential isolation			no potential isolation
General			
Housing material			Metal, anodized
Front type			Standard front with standard membrane (fully enclosed)
Dimensions (W x H x D)		mm	345 x 260 x 54
flush mounted			Clearance: W x H x D $\geq$ 30 mm (1.18") Inclination from vertical: $\pm$ 45° (if using natural convection)
Weight		kg	3
Degree of protection (IEC/EN 60529, EN50178, VBG 4)			IP65 (at front), IP20 (at rear) Enclosure Type 4X (Indoor use only)
Approvals			
Approvals			cUL (UL508)
Explosion protection (according to ATEX 94/9/EC)			II 3D Ex II T70°C IP5x: Zone 22, Category 3D
Applied standards and directives			
EMC			(in relation to CE) EN 61000-6-2 EN 61000-6-4 EN 61131-2
Product standards			EN 50178 EN 61131-2
Security			EN 60950 UL 60950
Standards			Explosion protection (relevant for CE) ATEX 94/9/EG: Zone 22, Category 3D (II 3D Ex to IIIC T70°C IP6x): IEC/EN 60079-0 IEC/EN 61241-0 IEC/EN 61241-1

			Security: IEC/EN 60950 UL 508 Product standards:
			EN 50178 IEC/EN 61131-2 EMC /relevant for CE): IEC/EN 61000-6-2 IEC/EN 61000-6-4 IEC/EN 61131-2
			IEC/EN 61000-6-3
Mechanical shock resistance Vibration		g	according to IEC 60068-2-27
Rohs			according to IEC/EN 60068-2-6 conform
Environmental conditions			COMOTH
Temperature			
Operation	θ	°C	0 - +50
Storage / Transport	θ	°C	-20 - +60
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	+ 50
Relative humidity			
Relative humidity			IEC/EN 50178 10 - 95%, non-condensing
Supply voltage U <sub>Aux</sub>			
Rated operational voltage	$U_{Aux}$	V	24 V DC (-20/+25%)
Residual ripple on the input voltage		%	≦5
Protection against polarity reversal			Yes
Max. current	I <sub>max</sub>	Α	3
Short-circuit rating			no, external fuse FAZ Z3
Potential isolation			No
Supply voltage U <sub>Pow</sub>		.,	0.00
Supply voltage	U <sub>Pow</sub>	V %	24 DC -20 % + 25 %
Input voltage ripple		70	≦ <sub>5</sub>
Siemens MPI, (optional) Rated current	ı	Α	0.7
Overload proof		А	
Inrush current and duration		Α	yes 12.5 A/6 ms
Heat dissipation at 24 V DC		W	3.8
Potential isolation between U <sub>Pow</sub> and 15 V SmartWire-DT supply voltage		VV	No
Bridging voltage dips		ms	10
Repetition rate		S	1
Status indication		LED	yes
SmartWire-DT supply voltage			
Rated operating voltage	U <sub>e</sub>	V	14,5 ± 3 %
max. current	I <sub>max</sub>	Α	0.7
Short-circuit rating			Yes
Connection supply voltages			
Connection type			Push in terminals
Solid		mm <sup>2</sup>	0.2 - 1.5
Flexible with ferrule		mm <sup>2</sup>	0.25 - 1.5
UL/CSA solid or stranded		AWG	24 - 16
SmartWire-DT network			
Station type			SmartWire-DT master
Number of SmartWire-DT slaves			58
Baud Rates		kBd	125 250
Address allocation			automatic
Status indication		LED	SmartWire-DT master LED: ret/green Configurations LED: red/green
Connections			Plug, 8-pole

#### Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	14.5
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	50
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Please enquire
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Meets the product standard's requirements.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

#### **Technical data ETIM 6.0**

PLC's (EG000024) / Graphic panel (EC001412)					
Electric engineering, automation, process control engineering / Control / Operate and Observe (HMI) / Graphic panel (HMI) (ecl@ss8.1-27-24-23-02 [BAA722010])					
Supply voltage AC 50 Hz		V	0 - 0		
Supply voltage AC 60 Hz		V	0 - 0		
Supply voltage DC		V	20.4 - 28.8		
Voltage type of supply voltage			DC		
Number of HW-interfaces industrial Ethernet			1		
Number of HW-interfaces PROFINET			0		
Number of HW-interfaces RS-232			1		
Number of HW-interfaces RS-422			0		
Number of HW-interfaces RS-485			0		
Number of HW-interfaces serial TTY			0		
Number of HW-interfaces USB			2		
Number of HW-interfaces parallel			0		
Number of HW-interfaces Wireless			0		
Number of HW-interfaces other			0		

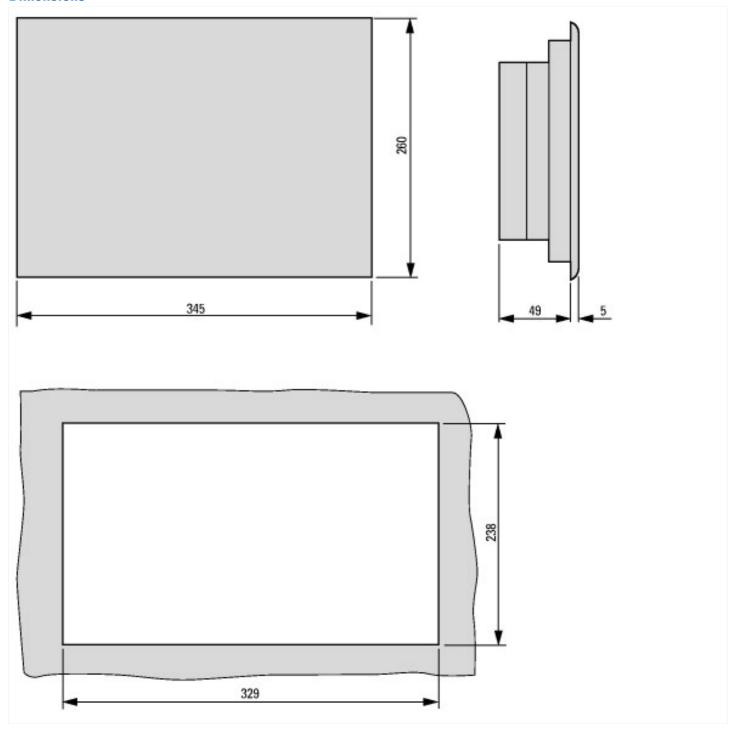
Separating protection INTCNIP         Test           Supporting protection INTCNIPUS         No           Supporting protection INTCRIPUS         No <td< th=""><th>With SW interfaces</th><th></th><th></th><th>Yes</th></td<>	With SW interfaces			Yes
Supposing protector CAC         60           Supposing protector CAC         60           Supposing protector CAC         60           Supposing protector CRX				
Supporting protected for CAM         Na           Supporting protect for MASI         Na           Supporting protect for IAM         Na           Supporting protect for				
Supporting procession for INTERBUS         9         No.           Supporting procession FAS         90				
Supporting protected for ASI         No.           Supporting protected for MADIOUS         Yes           Supporting protected for MADIOUS         Yes           Supporting protected for MADIOUS         No.           Supporting protected for MADIOUS         <				
Signoring ported for NAX         No           Signoring ported for NUBBURS         Yes           Signoring ported for Bust-lightery         No           Signoring ported for EXECUTS         No           Signoring ported for FURDING TOA         No				
Supporting protocol for MUDBUS         Yes           Supporting protocol for Dut-Horlwork         No           Supporting protocol for Dutchellor         No           Supporting protocol for SUDDINET         No           Supporting protocol for ENDINET (DA)         No           Supporting protocol for PROFINET (DA)         No           Supporting protocol for FROMENT (DA)         No           Supporting protocol for Endination Subdits         No           Supporting protocol for Endination         No           Supporting protocol for Endination Subdits         No           Supporting protocol for Endination Subdits         No           Supporting protocol for Endination Subdits         No           Supporting protocol for Endination S				
Supparture gontenot for Data Highway         No           Supparture gontenot for Deverable         No           Supparture gontenot for SURCET         No           Supparture gontenot for FURDINET COX         No <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
Supporting protocol for DeviceMed         No           Supporting protocol for SUCONET         No           Supporting protocol for PROGNET ID         No           Supporting protocol for PROGNET ID         No           Supporting protocol for PROGNET EQA         No           Supporting protocol for FROGNET EQA         No           Supporting protocol for Schright EQA         No           Relia standard EQA         No         No				
Supporting protected for UNN         No           Supporting protected for UNN         No           Supporting protected for PROPINET CIDA         No           Supporting protect for Providenting Fieldshare         No           Supporting protect for Providenting Fieldshare         No           Supporting protect for PROPINET CIDA         No           Supporting protect for Providenting Fieldshare         No           Supporting protected for PROPINET CIDA         No           Supporting protected for Order five State Videnting         No           Supporting protected for Order fiventing				
Supportung protect for LON         No           Supportung protect for PROPINET ICA         No           Supportung protect for PROPINET CAA         No           Supportung protect for PROPINET CAA         No           Supportung protect for FROPENET CIRCHAN         No           Supportung protect for Formufacial Friedman         No           Supportung protect for Formufacial Friedman         No           Supportung protect for Schelland Sakery         No           Supportung protect for INTERBUS-Sakery         No           Supportung protect for Interbus Sakery         No           Supportung protect for INTERBUS-Sakery         No           Supportung protect for Interbus Sakery         No           Supportung protect for INTERBUS-Sakery         No           Supportung protect for INTERBUS-Saker				
Supporting protacol for PROFINET IO         No           Supporting protacol for PROFINET ICBA         No           Supporting protacol for PROFINET ICBA         No           Supporting protacol for Foundation Faidbus         No           Supporting protacol for Foundation Faidbus         No           Supporting protacol for DeviceNet Safety at Wink         No           Supporting protacol for DeviceNet Safety at Wink         No           Supporting protacol for DeviceNet Safety at Wink         No           Supporting protacol for PROFINGER         No           Supporting protacol for SafetyBUS p         No           Supporting protacol for SafetyBUS p         No           Supporting protacol for SafetyBUS p         No           Radio Landard WMAN WIRZ 1         No           Radio Landard SWAM WIRZ 1         No           Vice of display         IT           Vice of display         IT           Wink master         No           Vice of display         In           Stream dimposal         In           Number of Jouise				
Supporting protocol for PROFINET CBA         No           Supporting protocol for SERCOS         No           Supporting protocol for EthenNeVIP         Ves           Supporting protocol for EthenNeVIP         No           Supporting protocol for INTERBUS Safaty         No           Supporting protocol for INTERBUS Safaty         No           Supporting protocol for other has systems         No           Ratio satandard SIMETON         No           Supporting protocol for determined SIMETON         No           With closurd display				
Supporting protection of SEROS         Ne           Supporting protection of Fundation Fieldows         Pe           Supporting protection of Fundation Fieldows         Pe           Supporting protection of Development Safety at Work         Ne           Supporting protection of Development Safety         Ne           Supporting protection of Development Safety         Ne           Supporting protection of PROFIsatin         Ne           Supporting protection of PROFIsatin         Ne           Supporting protection of Safety BUS p         Ne           Radia standard Supporting protection of Safety BUS p         Ne           Radia standard VMAN BUZ 11         Ne           Radia standard Supporting protection of Safety BUS p         Ne           Radia standard SME         Ne           Nethodour diapley         Ne           With colour diapley         Ne           Number of places belies of display         Yes           Number of places, ventical         Ne           Useful proces, ventical         Yes	11			
Supporting pratacal for Faundation Fieldhaus         IN           Supporting pratacal for EtherNeTDP         Vex           Supporting pratacal for DeviceNet Safety at Work         No           Supporting pratacal for PowiceNet Safety         No           Supporting pratacal for PowiceNet Safety         No           Supporting pratacal for PROBEASE         No           Supporting pratacal for PowiceNet Safety         No           Supporting pratacal for For MERSIANS         No           Supporting pratacal for For MERSIANS         No           Supporting pratacal for Or other bas systems         No           Redict sandard Bluetooth         No           Redict sandard SRM         No           Viso         No           Viso of State				
Supporting pratocal for EtherNet/IP         Yes           Supporting pratocal for AS-Interface Safety at Work         No           Supporting pratocal for INTERBUS-Safety         No           Supporting pratocal for PROFIBBUS-Safety         No           Supporting pratocal for PROFIBBUS-Safety         No           Supporting pratocal for Forth shus systems         Yes           Radio standard Bluetooth         No           Radio standard WAR REC.11         No           Union waster         No           Vipe of display         PET           Whe closed risplay         PET           Whe closed risplay         PET           Screen diagonal         No           Number of plosis, notemal         PET           Number of plosis, notemal         PET <td< td=""><td></td><td></td><td></td><td></td></td<>				
Supporting protocol for AS interface Safety at Work         No           Supporting protocol for Device Next Safety         No           Supporting protocol for PROFISEA         No           Supporting protocol for PROFISEA         No           Supporting protocol for Safety8US P         No           Redict sandard WLAN 2802.11         No           Redict sandard WLAN 2802.11         No           Redict sandard GPNS         No           Redict sandard WLAN 2802.11         No           Redict sandard WLAN 2802.11         No           Redict sandard WLAN 2802.11         Secondary           Redict sandard WLAN 2802.11         No           Redict sandard WLAN 2802.11         Secondary           Redict sandard WLAN 2802.11         S				
Supporting protocol for DeviceNet Safety                   No           Supporting protocol for INTERIBUS Safety         No           Supporting protocol for SafetyNUS p         No           Supporting protocol for SafetyNUS p         No           Supporting protocol for SafetyNUS p         No           Radio standard Bluetooth         No           Radio standard SUAN 8821.1         No           Radio standard SMR         No           Radio standard SMR         No           Radio standard UMTS         No           10 link master         No           17-yee of display         No           With colour display         Yes           Number of giplay         Sessage Safety Number of giplay           Number of joints, britished         9				
Supporting protocol for PROFISE's         No           Supporting protocol for PROFISE's         No           Supporting protocol for SelevBUS p         Yes           Radio standard Bluetooth         No           Radio standard Bluetooth         No           Radio standard WLAN 802.11         No           Radio standard SEM         No           Radio standard USMS         No           Radio standard USMTS         No           Radio standard USMTS         No           Radio standard USMTS         No           Radio standard USMTS         No           With colour display         Yes           With colour display         Yes           Number of colours of the display         Yes           Number of pixels, varical         Yes           Number of pixels, varical         Yes           Useful project memory/user memory         Yes           With audien's keyboard         Yes           Number of pixels, varical         Yes           With numeric keyboard         Yes           Number of pixels with tED         Yes           Number of pixels with tED         Yes           Number of pixels with tED         Yes           With nessage indication         Yes     <				
Supporting protocol for PR0Flatafa         No           Supporting protocol for SafukyBUS p         Yes           Radio standard Plutototh         Yes           Radio standard Bustooth         No           Radio standard BULLAN 802.11         No           Radio standard GPRS         No           Radio standard BSM         No           What colour standard BSM         Yes           Number of slopshy         Yes           Number of slopshy         Yes           Wester Indicate Standard BSM         Yes           With humeric keyboard         Yes           With humeric keyboard         Yes	,			
Supporting protocol for Saley-BUS p         No           Supporting protocol for other bus systems         Yes           Radio standard Bluetooth         No           Radio standard BURSA         No           Radio standard SMR         No           Radio standard SMR         No           Radio standard SMR         No           Radio standard SMR         No           10 link master         No           Type of display         TFT           Who colour singlay         Ses           Number of objects, or triotal         Ses           Number of pixels, burizontal         Ge           Number of pixels, burizontal         He           Number of pixels, burizontal         Beg           Number of pixels, burizontal         Beg           Number of pixels, burizontal         Beg           With numaric keyboard         Yes           With pixels, avertical programmable         Ge           Number of pixels, burizon buttons with LED         Yes           Number of system buttons         Yes           With nessage jedication         Yes           With nessage jedication         Yes           With nessage system (incl. buffer and confirmation)         Yes           With nessage sy	,			
Supporting protocol for other bus systems         Yes           Radio standard Blustooth         No           Radio standard WLAN 802.11         No           Radio standard GPRS         No           Radio standard GPRS         No           Radio standard GPS         No           Radio standard WLAN 802.11         No           Yes         No           Radio standard WLAN 902.11         No           Yes of display         No           With colour display         FTF           With colour display         8556           Number of colours of the display         0           Screen disponal         inch         10.4           Number of pixels, brizontal         840           Number of pixels, vertical         890         840           Veril project memory/vear memory         88yte         840           With numeric keyboard         Yes         10           Number of pixels, vertical         Yes         10           Number of pixels white DE         10         10           Number of pixels white pixels         10         10           Number of pixels white pixels         10         10           Number of pixels white pixels         10         10				
Radio standard Buetooth				
Radio standard WLAN 882.11         In Readio standard SPRS           Radio standard SPRS         No           Radio standard SMA         No           Radio standard SMA         No           Radio standard WMTS         No           10 link master         No           Type of display         PE           Wth colour display         Yes           Number of colours of the display         65556           Number of grey-scales/blue-scales of display         60           Screen diagonal         10           Number of pixels, horizontal         40           Number of pixels, vertical         40           Useful project memory user memory         40           With nameric keyboard         Yes           With apha numeric keyboard         Yes           With druber of function buttons, programmable         Yes           Number of system buttons         Yes           With though screen         Yes           With numeric keyboard         Yes <td></td> <td></td> <td></td> <td></td>				
Radio standard GPRS         No           Radio standard UNTS         No           Radio standard UNTS         No           Unix matter         No           Type of display         FT           With colour display         Yes           Number of celours of the display         65536           Number of proy-scales/fulus-scales of display         10           Number of pixels, horizontal         10           Number of pixels, vertical         80           Useful project memory/user memory         80           With numeric keyboard         Yes           With alpha numeric keyboard         Yes           With sulpha nume				
Radio standard UMTS         No           10 link master         No           Type of display         PT           With colour sof the display         PS           Number of closurs of the display         PS           Number of pixels, borizontal         PS           Number of pixels, borizontal         PS           Number of pixels, borizontal         PS           Number of pixels, vortical         PS           Useful project memory/user memory         PS           With numeric keybaard         PS           With plan numeric keybaard         PS           Number of buttons, programmable         PS           Number of buttons with LED         PS           Number of buttons with LED         PS           Number of buttons with LED         PS           With message indication         PS           Process value representation (output) possible         P				
Radio standard UMTS         No           10 link master         No           Type of display         TFT           With colour display         65538           Number of colours of the display         0           Screen diagonal         inch         10.4           Number of pixels, horizontal         40         40           Number of pixels, vertical         880         400           Useful project memory/user memory         889         400           With alpha numeric keyboard         9         9           With self of buttons, programmable         9         9           With self of buttons with LED         9         9           With message system buttons         9         9           With message system (incl. buffer and confirmation)         9         9           With message system (incl. buffer and confirmation)         9         9           With recipes         9				
10 link master         10 link master           Type of display         17 F           With colour display         68 586           Number of colours of the display         65586           Number of grey-scales/blue-scales of display         10 4           Screen diagonal         inch         104           Number of pixels, horizontal         2 40         400           Number of pixels, vertical         89 400         400           With upprigiet memory/user memory         8 19 40         400           With alpha numeric keyboard         9 8         400           Number of buttons, programmable         9 8         400           Number of buttons with LED         9 8         400           Number of buttons with LED         9 8         400           Number of buttons with LED         9 8         400           With message indication         9 9         40           With message system funct, buffer and confirmation         9 9         40           With message system (incl. buffer and confirmation)         9 9         40           With message system (incl. buffer and confirmation)         9 9         40           With message system (incl. buffer and confirmation)         9 9         40           With message syst				
Type of display         FT           With colour display         Yes           Number of colours of the display         5538           Number of grey-scales/blue-scales of display         0           Screen diagonal         Inch         10.4           Number of pixels, brizontal         40         40           Number of pixels, vertical         480         400           Useful project memory/user memory         480         400           With alpha numeric keyboard         Yes         Yes           Number of function buttons, programmable         0         0           Number of buttons with LED         0         0           Number of system buttons         Yes         Yes           With numessage indication         Yes         Yes           With message system (incl. buffer and confirmation)         Yes         Yes           Process value representation (output) possible         Yes         Yes           With reclipses         Yes         Yes           Number of formite languages         Yes         Yes           Additional software components, loadable         Yes         Yes           Number of protection (IP), front side         Yes         Yes           Operation temperature         Yes				
With colour display         Yes           Number of colours of the display         65536           Number of grey-scales/blue-scales of display         0           Screen diagonal         inch         10.4           Number of pixels, horizontal         480         400           Number of pixels, vertical         480         400           Useful project memory/user memory         kByte         64000           With unmeric keyboard         Ves         400           With alpha numeric keyboard         10         40           Number of function buttons, programmable         10         40           Number of system buttons         11         12           Number of system buttons         12         12         12           With nessage system (incl. buffer and confirmation)         12         12         12           With message system (incl. buffer and confirmation)         12         12         12           Process default value (input) possible         12         12         12           Process default value (input) possible         12         12         12           With recipes         12         12         12           With possible         12         12         12         12				
Number of colours of the display         65538           Number of grey-scales/blue-scales of display         10           Screen diagonal         inch         10.4           Number of pixels, horizontal         400         400           Number of pixels, vertical         480         4000           Useful project memory/user memory         64000         4000           With numeric keyboard         Yes         4000           With alphan numeric keyboard         9         40           Number of function buttons, programmable         0         40           Number of function buttons, programmable         9         40           Number of system buttons         1         4           With touch screen         1         4           With message indication         4         4           With message system (incl. buffer and confirmation)         4         4           Process value representation (output possible         4         4           With recipes         4         4           Number of password levels         4         4           Number of password levels         4         4           Number of possword levels         4         4           Number of possword levels         4 <td></td> <td></td> <td></td> <td></td>				
Number of grey-scales of display         10.4           Screen diagonal         inch         10.4           Number of pixels, horizontal         40.0           Number of pixels, vertical         480.0           Useful project memory/user memory         640.00           With alpha numeric keyboard         76.0           With alpha numeric keyboard         76.0           Number of fluction buttons, programmable         60.0           Number of buttons with LED         60.0           Number of system buttons         60.0           With touch screen         76.0           With message indication         76.0           With message system (incl. buffer and confirmation)         76.0           Process value representation (output) possible         76.0           Process default value (input) possible         76.0           With recipes         76.0           With recipes         76.0           Printer output available         76.0           Number of password levels         76.0           Printer output available         76.0           Additional software components, loadable         76.0           Degree of protection (IP), front side         76.0           Operation temperature         76.0				
Screen diagonal         inch         10.4           Number of pixels, horizontal         640           Number of pixels, vertical         880           Useful project memory/user memory         880           With numeric keyboard         940           With alpha numeric keyboard         94           Number of function buttons, programmable         94           Number of system buttons         94           With touch screen         94           With message indication         94           With message system (incl. buffer and confirmation)         94           Process value representation (output) possible         94           Process default value (input) possible         94           With recipes         94           Number of password levels         94           Printer output available         94           Number of password levels         94           Printer output available         94           Additional software components, loadable         94           Degree of protection (IP), front side         94           Operation temperature         94           1965				
Number of pixels, horizontal         640           Number of pixels, vertical         480           Useful project memory/user memory         6400           With numeric keyboard         79s           With alpha numeric keyboard         79s           Number of function buttons, programmable         60           Number of system buttons         60           Number of system buttons         1           With touch screen         79s           With message indication         79s           With message system (incl. buffer and confirmation)         79s           Process value representation (output) possible         79s           Process default value (input) possible         79s           With recipes         79s           Number of password levels         79s           Number of online languages         79s           Number of online languages         79s           Number of online languages         79s           Additional software components, loadable         79s           Degree of protection (IP), front side         79s           Operation temperature         79s				
Number of pixels, vertical         480           Useful project memory/user memory         64000           With numeric keyboard         79s           With alpha numeric keyboard         79s           Number of function buttons, programmable         60           Number of buttons with LED         60           Number of system buttons         79s           With touch screen         79s           With message indication         79s           With message system (incl. buffer and confirmation)         79s           Process value representation (output) possible         79s           Process default value (input) possible         79s           With recipes         79s           Number of password levels         79s           Printer output available         79s           Number of online languages         79s           Additional software components, loadable         79s           Degree of protection (IP), front side         79s           Operation temperature         79s           Process default value         79s           Process default value (input) possible         79s           With recipies         79s           Process value representation (output) possible         79s           Process value		II	nch	
Useful project memory/user memory         kByte         64000           With numeric keyboard         Yes           With alpha numeric keyboard         Yes           Number of function buttons, programmable         0           Number of buttons with LED         1           Number of system buttons         1           With touch screen         Yes           With message indication         Yes           With message system (incl. buffer and confirmation)         Yes           Process value representation (output) possible         Yes           Process default value (input) possible         Yes           With recipes         Yes           Number of password levels         Yes           Number of password levels         Yes           Number of inline languages         Yes           Number of online languages         Yes           Additional software components, loadable         Yes           Degree of protection (IP), front side         Yes           Operation temperature         Yes				
With numeric keyboard         Yes           With alpha numeric keyboard         Yes           Number of function buttons, programmable         0           Number of buttons with LED         0           Number of system buttons         1           With touch screen         Yes           With message indication         Yes           With message system (incl. buffer and confirmation)         Yes           Process value representation (output) possible         Yes           Process default value (input) possible         Yes           With recipes         Yes           Number of password levels         Yes           Number of password levels         Yes           Number of online languages         Yes           Yes         Yes <td< td=""><td></td><td></td><td>_</td><td></td></td<>			_	
With alpha numeric keyboard  Number of function buttons, programmable  Number of buttons with LED  Number of system buttons  With touch screen  With message indication  With message system (incl. buffer and confirmation)  Process value representation (output) possible  Process default value (input) possible  With recipes  Number of password levels  Number of password levels  Number of online languages  Additional software components, loadable  Degree of protection (IP), front side  Operation temperature  With alpha numeric keyboard  Ves  Voa  Voa  Voa  Ves  Ves  Ves  Ves  Ves  Ves  Ves  Ve		k	Byte	
Number of function buttons, programmable         0           Number of buttons with LED         0           Number of system buttons         1           With touch screen         Yes           With message indication         Yes           With message system (incl. buffer and confirmation)         Yes           Process value representation (output) possible         Yes           Process default value (input) possible         Yes           With recipes         Yes           Number of password levels         200           Printer output available         Yes           Number of online languages         100           Additional software components, loadable         Yes           Degree of protection (IP), front side         IP65           Operation temperature         0 - 50				
Number of buttons with LED  Number of system buttons  With touch screen  With message indication  With message system (incl. buffer and confirmation)  Process value representation (output) possible  Process default value (input) possible  Process default value (input) possible  With recipes  Number of password levels  Printer output available  Number of online languages  Additional software components, loadable  Degree of protection (IP), front side  Operation temperature  O 0  1 1  2 1  3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				
Number of system buttons  With touch screen  With message indication  With message system (incl. buffer and confirmation)  Process value representation (output) possible  Process default value (input) possible  With recipes  With recipes  Number of password levels  Printer output available  Number of online languages  Additional software components, loadable  Degree of protection (IP), front side  Operation temperature  I a l 1  Yes  Yes  Yes  Yes  Yes  100  Yes  100  Yes  100  106  107  106  107  107  107  107	77 -			
With touch screen With message indication With message system (incl. buffer and confirmation) Process value representation (output) possible Process default value (input) possible With recipes With recipes Number of password levels Number of online languages Number of online languages Additional software components, loadable Degree of protection (IP), front side Operation temperature  Yes Yes Yes Yes 100 Yes 10				
With message indication With message system (incl. buffer and confirmation) Process value representation (output) possible Process default value (input) possible Process default value (input) possible With recipes With recipes Number of password levels Printer output available Number of online languages Additional software components, loadable Degree of protection (IP), front side Operation temperature  Yes Yes  Yes  100  Yes  100  Yes  100  Printer Operation temperature O 0 - 50				
With message system (incl. buffer and confirmation) Process value representation (output) possible Process default value (input) possible With recipes With recipes Number of password levels Printer output available Number of online languages Additional software components, loadable Degree of protection (IP), front side Operation temperature  Yes  Yes  Yes  Yes  100  105  105  106  106  107  107  108  108  109  109  109  109  109  109				
Process value representation (output) possible Process default value (input) possible With recipes With recipes Number of password levels Number of online languages Number of online languages Additional software components, loadable Degree of protection (IP), front side Operation temperature  Yes  Yes  Yes  100  Yes  100  Yes  100  Yes  100  Yes  100  Yes  100  100  100  100  100  100  100  1				
Process default value (input) possible  With recipes  Number of password levels  Number of online languages  Additional software components, loadable  Degree of protection (IP), front side  Operation temperature  Yes  Yes  Yes  100  100  100  100  100  100  100  1				
With recipes  Number of password levels  Printer output available  Number of online languages  Additional software components, loadable  Degree of protection (IP), front side  Operation temperature  Yes  Yes  100  Yes  106  Yes  0 - 50				
Number of password levels  Printer output available Number of online languages Number of online languages Additional software components, loadable Degree of protection (IP), front side Operation temperature  200 Yes 100 100 100 100 100 100 100 100 100 10				
Printer output available Number of online languages Additional software components, loadable Degree of protection (IP), front side Operation temperature  Yes  Yes  100  Yes  Yes  O - 50				
Number of online languages  Additional software components, loadable  Degree of protection (IP), front side  Operation temperature  100  Yes  1P65  0 - 50				
Additional software components, loadable  Pegree of protection (IP), front side  Operation temperature  Yes  IP65  0 - 50				
Degree of protection (IP), front side IP65 Operation temperature °C 0 - 50				
Operation temperature °C 0 - 50				
Rail mounting possible No		0	,C	
	Rail mounting possible			No

Wall mounting/direct mounting		No
Suitable for safety functions		No
Width of the front	mm	345
Height of the front	mm	260
Built-in depth	mm	49

## Approvals

Product Standards	UL508, cULus; IEC/EN 61131-2, CE
UL File No.	E205091
UL Category Control No.	NRAQ
CSA File No.	UL report applies to US and Canada
CSA Class No.	-
North America Certification	UL listed, certified by UL for use in Canada
Current Limiting Circuit-Breaker	No
Degree of Protection	IEC:IP20, UL/CSA Tape: open type

### **Dimensions**



Additional product information	tion (links)
IL04802006Z Enclosed Kit Information	
IL04802006Z Enclosed Kit Information	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04802006Z2013_03.pdf
IL04802005Z Beipack-Informationen	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04802005Z2013_10.pdf
MN04802006Z Operator manual XV-152	
MN04802006Z Betriebsanleitung XV-152 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802006Z_DE.pdf
MN04802006Z Operator manual XV-152 - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802006Z_EN.pdf
MN04802013Z quick-start instructions XV100	
MN04802013Z Schnellstartanleitung XV100 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802013Z_DE.pdf
MN04802013Z quick-start instructions XV100 - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802013Z_EN.pdf
MN04802091Z User manual XSoft-CoDeSys-2, l	PLC programming XV100
MN04802091Z Benutzerhandbuch XSoft- CoDeSys-2, SPS-Programmierung XV100 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802091Z-DE.pdf
MN04802091Z User manual XSoft-CoDeSys-2, PLC programming XV100 - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802091Z-EN.pdf
MN048008ZU Manual XSOFT-CODESYS-3, PLC	programming
MN048008ZU Handbuch XSOFT-CODESYS-3, SPS-Programmierung - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048008ZU_DE.pdf
MN048008ZU Manual XSOFT-CODESYS-3, PLC	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048008ZU_EN.pdf

programming - English