

# Touch panel, 24 V DC, 5.7z, TFTcolor, ethernet, RS485, profibus, SWDT, PLC

Powering Business Worldwide

**6** 

 Part no.
 XV-102-E8-57TVRC-10

 Article no.
 153526

 Catalog No.
 XV-102-E8-57TVRC-10

#### **Delivery programme**

Delivery programme		
Product range		XV100 5.7"
Product range		XV-102
Subrange		SmartWire-DT touch display with integrated controller (HMI PLC)
Function		SmartWire-DT coordinator
Description		XV100 touch panel with PLC function for flush mounting plates
Description		Coordinator for the SmartWire-DT communications system
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	5.7
Model		Insulating enclosure and front plate
Operating system		Windows CE 5.0 (licence incl.)
PLC-licence		PLC licence inclusive
License certificates for onboard interfaces		Not required
built-in interfaces		1 x Ethernet 10/100 Mbps 1 x RS485 1 x USB host 2.0 1 x USB device 1 x PR0FIBUS/MPI 1 x SmartWire-DT
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	9.5
Connection to SmartWire-DT		yes

## Technical data

Display		
Display - Type		Color display, TFT
Screen diagonal	Inch	5.7
Resolution	Pixel	VGA 640 x 480
Visible screen area	mm	115 x 86
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

Procession         Name of the control of the co	Touch sensor			Glass with film
Internal manory  Education man	System			
Charter   Common	Processor			RISC CPU, 32 Bit, 400 MHz
	Internal memory			NAND-Flash (can be used for data backup): approx. 128 MByte available
Butter up of read since clock	External memory			SD Memory Card Slot: SDA Specification 1.00
Bits lay betwee life         Zero manifemance           Bissuits plain at zero voltage!         Normality if years           Centrating system         Normality if years           Centrating         Windrate SE Bill Bitteria incl.)           Centrating         PABALISTO           Washingtonian anthroom         PABALISTO           PADALISTO         PABALISTO           SSEPT CORDENYS 2         SSEPT CORDENYS 2           Vision of Cordenys 3         VISION CORDENYS 2           Value of Processory 2         VISION CORDENYS 2           Vision of Cordenys 3         VISION CORDENY 2           Vision of Cordenys 3         VISION CORDENY 2           Vision of Cordenys 3         VISION CORDENY 2         VISION CORDENY 2 <th< td=""><td>Cooling</td><td></td><td></td><td>Fanless CPU and system cooling, natural convection-based passive cooling</td></th<>	Cooling			Fanless CPU and system cooling, natural convection-based passive cooling
Bestup (film et zero voltage)	Back-up of real-time clock			
Community system	Battery (service life)			Zero maintenance
	Backup (time at zero voltage)			Normally 10 years
	Operating system			Windows CE 5.0 (licence incl.)
PEAP	Engineering			
	Visualisation software			EPAM XSOFT-CODESYS-2
	PLC-Programming software			
bulkin in interfaces         1 x ENSEAD IN X SEAD BADE 20 1 x SEAD SEAD IN X SEAD BADE 20 1 x SEAD SEAD IN X SEAD BADE 20 1 x SEAD SEAD SEAD SEAD SEAD SEAD SEAD SEAD	Target and web visualization			Yes
	Interfaces, communication			
USB 14 device  USB 24 device  15 3 device				1 x RS485 1 x USB host 2.0 1 x USB device 1 x PR0FIBUS/MPI 1 x SmartWire-DT
USB device         USB 2.0, not galvanically isolated           RS-232         no           RS-456         Yes           CAN         no           Profibus         Yes           Siots         for SD card: 1           SmartWine-OT master         yes           Etherated         yes           sasylyds         no           MPI         yes           POWER         yes           Nominal voltage         yes           Power supply         yes           Nominal voltage         Feffective: 192-30.0 V DC (rated operating voltage - 20%/+ 25%) Absolute with ripple: 18,0-312 V DC.           Power consumption         pmax         yes           Voltage dips         1 to make from rated voltage (AV DC)           Power consumption         pmax         yes           Voltage dips         1 to make from rated voltage (AV DC)           Power consumption         pmax         yes           Note on power consumption         pmax         yes           Note on head dissipation         yes         yes           Note on head dissipation         yes         yes           Note on head dissipation         yes         yes           Siemens MPI, (optional) <td< td=""><td>PLC-licence</td><td></td><td></td><td>PLC licence inclusive</td></td<>	PLC-licence			PLC licence inclusive
RS-282         90 <td< td=""><td>USB Host</td><td></td><td></td><td>USB 2.0 (1.5 - 12 Mbit/s), not galvanically isolated</td></td<>	USB Host			USB 2.0 (1.5 - 12 Mbit/s), not galvanically isolated
RS-485         FM         Yes         100           CAN         Yes         Yes         100           Profibus         FM         Yes         100 </td <td>USB device</td> <td></td> <td></td> <td>USB 2.0, not galvanically isolated</td>	USB device			USB 2.0, not galvanically isolated
Profibus Profibus Silots Silots SmartWire-DT master Ethernet aasyNet aasyNet Ampl MPI POWER SUBJ Nominal voltage Power Supply Power Supply Nominal voltage Power Supply Suppl	RS-232			no
Profibius         Yes           Slots         for SD card: 1           SmartWire-DT master         Yes           Ethernet         100Base-TX/10Base-T           asayNet         700Base-TX/10Base-T           MPI         Yes           Power supply         Yes           Nominal voltage         24 V DC SELV (saftary extra low voltage)           permissible voltage         24 V DC SELV (saftary extra low voltage)           Voltage dijps         24 V DC SELV (saftary extra low voltage)           Power consumption         8 Statery powered: 18,0-31,2 V DC           Power consumption         9 Statery powered: 18,0-31,2 V DC           Note on power consumption         9 Statery power for saft and voltage (24 V DC)           Note on power consumption         9 State of power of the saft dissipation with power consumption for 24 V TC)           Note on heat dissipation         9 S           Note on heat dissipation         9 S           Note on heat dissipation         9 S           Yes         19 State of accessible)           You for dust         9 S           You for dust         9 S           You for dust         9 S           You for for the saft device + 2.5 W for USB module         9 Y W To Power dust           You for for the saft devi	RS-485			Yes
Slots SmartWire-DT master Yes 1008ase-TX/108ase-T 1008ase-TX/108as	CAN			no
SmartWire-DT master         Yes           Ethernet         1008ase-TX/10Base-T           easyNet         no           MPI         Yes           Power supply           Nominal voltage         24 V DC SELV (safety extra low voltage)           Effective: 19.2-30.0 V DC (rated operating voltage -20%/-25%)         Absolute with pipple: 18.0-31.2 V DC           Mastery powered: 18.0-31.2 V DC (rated operating voltage -25%/+30%)         35 V DC for a duration of < 100 ms	Profibus			Yes
Ethernet easyNet no MPI  MPI  Service Supply  Nominal voltage permissible voltage  Woltage dips  Voltage dips  Note on power consumption Note on power consumption  Note on power consumption  Note on heat dissipation  Note on heat dissipation  Simens MPI, (optional)  Simens MPI, (optional)  Power dental isolation  Fore of true Power dental isolation  Fore of true Power dental isolation  Power dental isolation  Simens MPI, (optional)  Power dental isolation  Fore of true Power dental voltage (24 V DC) Fore of true doperating voltage -25%/430%)  Fore	Slots			for SD card: 1
measyNet MPI  Nominal voltage  permissible voltage  permissible voltage  Woltage dips  Voltage dips  Power consumption  Note on power consumption  Note on hard dissipation	SmartWire-DT master			Yes
Power supply Nominal voltage permissible voltage permissible voltage permissible voltage  Voltage dips Voltage dipservicia (18,03,12,7 loC (rated operating voltage -20%/+25%) Absolute with rippie: 18,0-31,2 V loC (rated operating voltage -20%/+25%) Shouthwith rippie: 18,0-31,2 V loC (rated operating voltage -20%/+25%) Shouthwith rippie: 18,0-31,2 V loC (rated operating voltage -20%/+25%) Shouthwith rippie: 18,0-31,2 V loC (rated operating voltage -20%/+25%) Shouthwith rippie: 18,0-31,2 V loC (rated operating voltage -20%/+25%) Shouthwith rippie: 18,0-31,2 V loC (rated operating voltage -20%/+25%) Shouthwith rippie: 18,0-31,2 V loC (rated operating voltage -20%/+25%) Shouthwith rippie: 18,0-31,2 V loC (rated operating voltage -20%/+25%) Shouthwith rippie: 18,0-31,2 V loC (rated operating voltage -20%/+25%) Shouthwith rippie: 18,0-31,2 V loC (rated operating voltag	Ethernet			100Base-TX/10Base-T
Power supply         Nominal voltage       Leffective: 19.2-30.0 V DC (rated operating voltage - 20%/+25%)         Betting in the principal of the princ	easyNet			no
Nominal voltage permissible voltage port permissible voltage port permissible voltage port port permissible voltage permissible voltage port port permissible voltage permissible voltage port port permissible voltage permissible voltage permissible voltage permissible voltage permising voltage -20%/+25%) port port port atou voltage permissible voltage permising voltage -20%/+25%) port port permissible voltage permising voltage -20%/+25%) port port atou voltage permissible voltage permising voltage -20%/+25%) port port permissible voltage repairing voltage -20%/+25%) port port atou voltage (19.2 V DC) part permissible voltage repairing voltage -20%/+25%) port permissible voltage repairing voltage -25%/+30%) port permissible voltage repairing voltage -20%/+25%) port permissible voltage repairing voltage -20%/+25%/-30%) port permissible voltage repairing voltage -20%/+25%/-30%) port permissible voltage repairing voltage -20%/+25%/-30%) port permissible voltage repairing voltage -20%/+30%) port permissible voltage repairing voltage -20%/+30% port permissible voltage repairing voltage -20%/+30% port permissible voltage repairing voltage -20%/+30% port permissible voltage repairing v				Yes
permissible voltage       Effective: 19.2-30.0 V D C (rated operating voltage -20%/+25%) Absolute with ripple: 18,0-31,2 V D C Battery powered: 18,0-31,2 V D C (rated operating voltage -25%/+30%) 35 V D C for a duration of < 100 ms         Voltage dips       ms       ≤ 10 ms from rated voltage (24 V D C) 5 ms from undervoltage (19.2 V D C)         Power consumption       Pmax.       W       10         Note on power consumption       W       9.5         Heat dissipation       W       9.5         Note on heat dissipation       W       9.5         Siemens MPI, (optional)       Yes       Heat dissipation with power consumption for 24 V 7 7 W for basic device + 2.5 W for USB module         Siemens MPI, (optional)       Yes       Yes (fuse not accessible)       Yes         Type of fuse       Yes       Yes (fuse not accessible)       Yes         General       Yes       Yes (fuse not accessible)       Yes         General       Yes       Yes       Yes       Yes         Front type       Potential isolation       Yes       Yes       Yes       Yes       Yes         Front type       Potential isolation       Yes				
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  Note on power consumption  Note on power consumption  Note on power consumption  Note on heat dissipation  Note on heat dissipation  Note on heat dissipation  Note on heat dissipation  Siemens MPI, (optional)  Type of fluse  Potential isolation  General  Housing material  Housing material  Front type  Dimensions (W x H x D)  flush mounted  Note on heat dissipation  Absolute with ripple: 18,0-31,2 V DC 5 ms from rated voltage (24 V DC) 5 ms from undervoltage (19,2 V DC)  Power consumption  Saltery power consumption of voltage (24 V DC) 5 ms from rated voltage (24 V DC) 5 ms from undervoltage (19,2 V DC)  Power consumption  Saltery power consumption  ms form rated voltage (24 V DC) 5 ms from undervoltage (19,2 V DC) 5				
Four consumption  Power consumption for 24 V  7 W for basic device + 2.5 W for USB module  Power consumption for 24 V  7 W for basic device + 2.5 W for USB module  Power consumption  Power consumption for 24 V  Power consumptio	permissible voltage			Absolute with ripple: 18,0-31,2 V DC Battery powered: 18,0-31,2 V DC (rated operating voltage -25%/+30%)
Note on power consumption       Basic device USB Host: 2.5 Total: 9.5         Heat dissipation       W       9.5         Note on heat dissipation       Heat dissipation with power consumption for 24 V 7 W for basic device + 2.5 W for USB module         Siemens MPI, (optional)       yes         Type of fuse       Yes (fuse not accessible)         Potential isolation       no potential isolation         General       Plastic, gray         Front type       Standard front with standard membrane (fully enclosed)         Dimensions (W x H x D)       mm       170 x 130 x 39         flush mounted       Clearance: W x H x D ≥ 30 mm (1.18") (Inclination from vertical: ±45° (if using natural convection)			ms	
USB Slave to USB Host: 2.5 Total: 9.5  Heat dissipation  Note on heat dissipation  Note on heat dissipation  Note on heat dissipation  Siemens MPI, (optional)  Type of fuse  Potential isolation  General  Housing material  Front type  Dimensions (W x H x D)  flush mounted  USB Slave to USB Host: 2.5 Total: 9.5  Heat dissipation with power consumption for 24 V 7 W for basic device + 2.5 W for USB module  yes  Yes (fuse not accessible)  no potential isolation  Plastic, gray  Standard front with standard membrane (fully enclosed)  T70 x 130 x 39  Clearance: W x H x D ≥ 30 mm (1.18") Inclination from vertical: ±45° (if using natural convection)	Power consumption	P <sub>max</sub> .	W	10
Note on heat dissipation  Heat dissipation with power consumption for 24 V 7 W for basic device + 2.5 W for USB module  yes  Type of fuse  Yes (fuse not accessible)  no potential isolation  General  Housing material  Front type  Dimensions (W x H x D)  flush mounted  Heat dissipation with power consumption for 24 V 7 W for basic device + 2.5 W for USB module  yes  Yes (fuse not accessible)  no potential isolation  Plastic, gray  Standard front with standard membrane (fully enclosed)  mm  170 x 130 x 39  Clearance: W x H x D $\geq$ 30 mm (1.18°) Inclination from vertical: $\pm$ 45° (if using natural convection)	Note on power consumption			USB Slave to USB Host: 2.5
Siemens MPI, (optional) yes   Type of fuse Yes (fuse not accessible)   Potential isolation no potential isolation   General Plastic, gray   Front type Standard front with standard membrane (fully enclosed)   Dimensions (W x H x D) mm 170 x 130 x 39   flush mounted Clearance: W x H x D ≥ 30 mm (1.18") Inclination from vertical: ±45° (if using natural convection)	Heat dissipation		W	9.5
Type of fuse Yes (fuse not accessible)  Potential isolation no potential isolation  General  Housing material Plastic, gray  Front type Standard front with standard membrane (fully enclosed)  Dimensions (W x H x D) mm 170 x 130 x 39  Glearance: W x H x D $\geq$ 30 mm (1.18")  Inclination from vertical: $\pm$ 45° (if using natural convection)	Note on heat dissipation			
Potential isolation no potential isolation  General  Housing material  Front type  Dimensions (W x H x D)  flush mounted  Plastic, gray  Standard front with standard membrane (fully enclosed)  mm  170 x 130 x 39  Clearance: W x H x D $\geq$ 30 mm (1.18") Inclination from vertical: $\pm$ 45° (if using natural convection)	Siemens MPI, (optional)			yes
General       Housing material     Plastic, gray       Front type     Standard front with standard membrane (fully enclosed)       Dimensions (W x H x D)     mm $170 \times 130 \times 39$ flush mounted     Clearance: W x H x D ≥ 30 mm (1.18")       Inclination from vertical: ±45° (if using natural convection)	Type of fuse			Yes (fuse not accessible)
Housing material Plastic, gray  Front type Standard front with standard membrane (fully enclosed)  Dimensions (W x H x D) mm 170 x 130 x 39  Clearance: W x H x D $\geq$ 30 mm (1.18") Inclination from vertical: $\pm$ 45° (if using natural convection)				no potential isolation
Front type Standard front with standard membrane (fully enclosed)  Dimensions (W x H x D) mm 170 x 130 x 39  flush mounted Clearance: W x H x D $\geq$ 30 mm (1.18") Inclination from vertical: $\pm$ 45° (if using natural convection)	General			
Dimensions (W x H x D) mm 170 x 130 x 39 flush mounted Clearance: W x H x D $\geq$ 30 mm (1.18") Inclination from vertical: $\pm$ 45° (if using natural convection)				
flush mounted Clearance: W x H x D $\geq$ 30 mm (1.18") Inclination from vertical: $\pm$ 45° (if using natural convection)				· / · · ·
Inclination from vertical: ±45° (if using natural convection)			mm	
vveignt Kg U.b			ka	Inclination from vertical: ±45° (if using natural convection)
	vveigit		ку	U.U

Degree of protection (IEC/EN 60529, EN50178, VBG 4)  Approvals  Explosion protection (according to ATEX 94/9/EC)  Applied standards and directives  EMC			IP65 (at front), IP20 (at rear)  CUL (UL508)
Approvals  Explosion protection (according to ATEX 94/9/EC)  Applied standards and directives			cH (H1508)
Explosion protection (according to ATEX 94/9/EC) Applied standards and directives			
Applied standards and directives			
			II 3D Ex II T70°C IP5x: Zone 22, Category 3D
EMC			(
			(in relation to CE) EN 61000-6-2 EN 61000-6-4 EN 61131-2
Explosion protection (relevant for CE)			EN 60079-0 EN 61241-1 EN 13463_x
Product standards			EN 50178 EN 61131-2
Security			EN 60950 UL 60950
Mechanical shock resistance		g	according to IEC 60068-2-27
Vibration			according to IEC/EN 60068-2-6
RoHS			conform
Environmental conditions Temperature			
	9	°C	0 - +50
		°C	-20 - +60
Operating ambient temperature min.		°C	
			0
Operating ambient temperature max.		°C	+ 50
Relative humidity			
Relative humidity			10 - 95%, non-condensing
Supply voltage U <sub>Aux</sub>		.,	211122 (22) 2291
	U <sub>Aux</sub>	V	24 V DC (-20/+25%)
Residual ripple on the input voltage		%	≦ <sub>5</sub>
Protection against polarity reversal			Yes
Max. current	I <sub>max</sub>	Α	3
Note			If contactors with a total power consumption $>$ 3 A are connected, a power feeder module EU5C-SWD-PF1/2 has to be used.
Short-circuit rating			no, external fuse FAZ Z3
Potential isolation			No
Rated operating voltage of 24-V-DC slaves		V	typ. U <sub>Aux</sub> - 0.2
Supply voltage U <sub>Pow</sub>			
Supply voltage I	U <sub>Pow</sub>	V	24 DC -20 % + 25 %
Input voltage ripple		%	≤ <sub>5</sub>
Siemens MPI, (optional)			yes
Rated current	I	Α	0.7
Overload proof			yes
Inrush current and duration		Α	12.5 A/6 ms
Heat dissipation at 24 V DC		W	1.0
Potential isolation between U <sub>Pow</sub> and 15 V SmartWire-DT supply voltage			No
Bridging voltage dips		ms	10
Repetition rate		s	1
Status indication		LED	yes
SmartWire-DT supply voltage			1
	U <sub>e</sub>	V	14,5 ± 3 %
		Α	0.7
Note	·IIIdX		If SmartWire-DT modules with a total power consumption > 0.7 A are connected, a
INDIG			power feeder module EU5C-SWD-PF2 has to be used.
Short-circuit rating			Yes
Connection supply voltages			
Connection type			Push in terminals
Solid		mm <sup>2</sup>	0.2 - 1.5

Flexible with ferrule	mı	m <sup>2</sup> 0.25	5 - 1.5
UL/CSA solid or stranded	AV	VG 24 -	- 16
SmartWire-DT network			
Station type		Sm	artWire-DT master
Number of SmartWire-DT slaves		99	
Baud Rates	kE	3d 125 250	
Address allocation		aut	omatic
Status indication	LE		artWire-DT master LED: ret/green nfigurations LED: red/green
Connections		Plu	g, 8-pole
Plug connectors		Bla	de terminal SWD4-8MF2

## Design verification as per IEC/EN 61439

besign vermeation as per 120/214 01-105			
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	9.5
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	

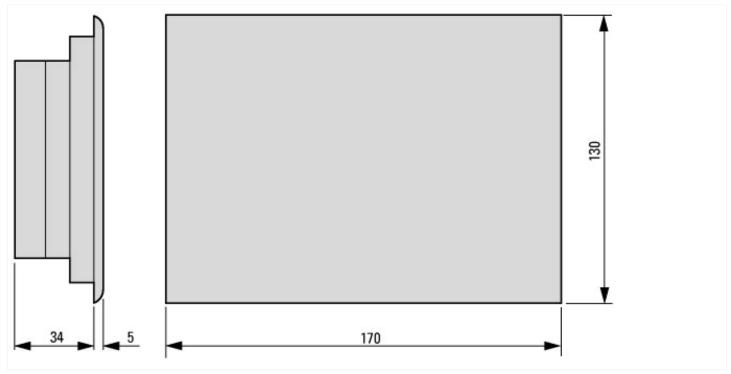
Number of IIIV interference industrial Fithermot		1
Number of HW-interfaces industrial Ethernet		1
Number of HW-interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		1
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		2
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		0
Number of HW-interfaces other		1
With SW interfaces		Yes
Supporting protocol for TCP/IP		Yes
Supporting protocol for PROFIBUS		Yes
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for MODBUS		Yes
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		Yes
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		Yes
Radio standard Bluetooth		No
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
IO link master		No
Type of display		TFT
With colour display		Yes
Number of colours of the display		65536
Number of grey-scales/blue-scales of display		0
Screen diagonal	inch	7
Number of pixels, horizontal		640
Number of pixels, vertical		480
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		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	°C	0 - 50
Rail mounting possible		No
Wall mounting/direct mounting		No
Suitable for safety functions		No
Width of the front	mm	170
Height of the front	mm	130
Built-in depth	mm	34

#### 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 (links)**

Instruction leaflet IL048007ZU XV-102	
Instruction leaflet IL048007ZU XV-102	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL048007ZU.pdf
MN04802004Z Operator manual XV-102	
MN04802004Z Betriebsanleitung XV-102 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802004Z_DE.pdf
MN04802004Z Operator manual XV-102 - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802004Z_EN.pdf
MN04802013Z guick-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, F	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			
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