

Touch panel, 24 V DC, 3.5z, TFTcolor, ethernet, SWDT, PLC

Part no. XV-102-BE-35TQRC-10 Article no. 153524 Catalog No. XV-102-BE-35TQRC-10





Delivery program

Product range			XV100 3.5"
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 Slot for SD card UL508, cUL approvals
Display - Type			Color display, TFT
Touch-technology			Resistive-Touch
Number of colours			64 k Colours
Resolution	Р	Pixel	QVGA 320 x 240
Portrait format			yes
Screen diagonal	Ir	nch	3.5
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 USB device 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	V	٧	5
Connection to SmartWire-DT			yes

Technical data

Display Color display, TFT Display - Type Screen diagonal Inch 3.5 Resolution Pixel QVGA 320 x 240 70 x 53 Visible screen area mm Number of colours 64 k Colours Contrast ratio (Normally) Normally 300:1 Normally 250 ${\sf Brightness}$ cd/m² Back-lighting LED dimmable via software Service life of back-lighting h Normally 40000 Resistive touch protective screen Touch sensor (glass with foil) Operation

operation.	
Technology	Resistive-Touch 4 wire
Touch sensor	Glass with film
System	

Processor RISC CPU, 32 Bit, 400 MHz

		SD Memory Card Slot: SDA Specification 1.00 Fanless CPU and system cooling, natural convection-based passive cooling Zero maintenance Normally 10 years Windows CE 5.0 (licence incl.) GALILEO EPAM XSOFT-CODESYS-2 XSOFT-CODESYS-3 XSOFT-CODESYS-3 Yes 1 x Ethernet 10/100 Mbps 1 x USB device 1 x SmartWire-DT PLC licence inclusive no USB 2.0, not galvanically isolated no no no for SD card: 1 Yes
		Fanless CPU and system cooling, natural convection-based passive cooling Zero maintenance Normally 10 years Windows CE 5.0 (licence incl.) GALILEO EPAM XSOFT-CODESYS-2 XSOFT-CODESYS-3 XSOFT-CODESYS-3 Yes 1 x Ethernet 10/100 Mbps 1 x USB device 1 x SmartWire-DT PLC licence inclusive no USB 2.0, not galvanically isolated no no no for SD card: 1
		Zero maintenance Normally 10 years Windows CE 5.0 (licence incl.) GALILEO EPAM XSOFT-CODESYS-2 XSOFT-CODESYS-3 XSOFT-CODESYS-3 Yes 1 x Ethernet 10/100 Mbps 1 x USB device 1 x SmartWire-DT PLC licence inclusive no USB 2.0, not galvanically isolated no no no for SD card: 1
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		res
		100Base-TX/10Base-T
		no
		no
		24 V DC SELV (safety extra low 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
	ms	≤ 10 ms from rated voltage (24 V DC) 5 ms from undervoltage (19.2 V DC)
nax.	W	5
		Basic device USB Slave to USB Host: 2.5 Total: 9.5
	W	5
		Heat dissipation with power consumption for 24 V, all ports and interfaces connected
		yes
		Yes (fuse not accessible)
		no potential isolation
		Plastic, gray
		Standard front with standard membrane (fully enclosed)
	mm	136 x 100 x 30
		Clearance: W x H x D \geq 30 mm (1.18") Inclination from vertical: $\pm 45^{\circ}$ (if using natural convection)
	kg	0.3
		IP65 (at front), IP20 (at rear)
		cUL (UL508)
		II 3D Ex II T70°C IP5x: Zone 22, Category 3D
la	x.	w W

EMC			(in relation to CE) EN 61000-6-2 EN 61000-6-4 EN 6112 2
Explosion protection (relevant for CE)			EN 61131-2 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			
Operation	θ	°C	0 - +50
Storage / Transport	9	°C	-20 - +60
Operating ambient temperature min.	Ü	°C	0
		°C	
Operating ambient temperature max.		U	+ 50
Relative humidity			10.00%
Relative humidity			10 - 95%, non-condensing
Supply voltage U _{Aux}			
Rated operational voltage	U_{Aux}	V	24 V DC (-20/+25%)
Residual ripple on the input voltage		%	\leq_5
Protection against polarity reversal			Yes
Max. current	I _{max}	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 _{Aux} - 0.2
Supply voltage U _{Pow}			
Supply voltage	U_{Pow}	V	24 DC -20 % + 25 %
Input voltage ripple		%	\leq_5
Siemens MPI, (optional)			yes
Rated current	1	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
		VV	
Potential isolation between U _{Pow} 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			
Rated operating voltage	U _e	V	14,5 ± 3 %
max. current	I _{max}	Α	0.7
Note			If SmartWire-DT modules with a total power consumption > 0.7 A are connected, a power feeder module EU5C-SWD-PF2 has to be used.
Short-circuit rating			Yes
Connection supply voltages			
Connection type			Push in terminals
Solid		mm ²	0.2 - 1.5
Flexible with ferrule		mm ²	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			99
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
Plug connectors		Blade terminal SWD4-8MF2

Design verification as per IEC/EN 61439

In	Α	0
P _{vid}	W	0
P _{vid}	W	0
P _{vs}	W	5
P _{diss}	W	0
	°C	0
	°C	50
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
t		Meets the product standard's requirements.
		Please enquire
		Does not apply, since the entire switchgear needs to be evaluated.
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		Meets the product standard's requirements.
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		Meets the product standard's requirements.
		Does not apply, since the entire switchgear needs to be evaluated.
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		Is the panel builder's responsibility.
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		Is the panel builder's responsibility.
		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
		Is the panel builder's responsibility.
		Is the panel builder's responsibility.
		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
	P _{vid} P _{vid} P _{vs}	P _{vid} W P _{vid} W P _{vs} W P _{diss} W °C °C

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			0
Number of HW-interfaces RS-422			0
Number of HW-interfaces RS-485			0
Number of HW-interfaces serial TTY			0

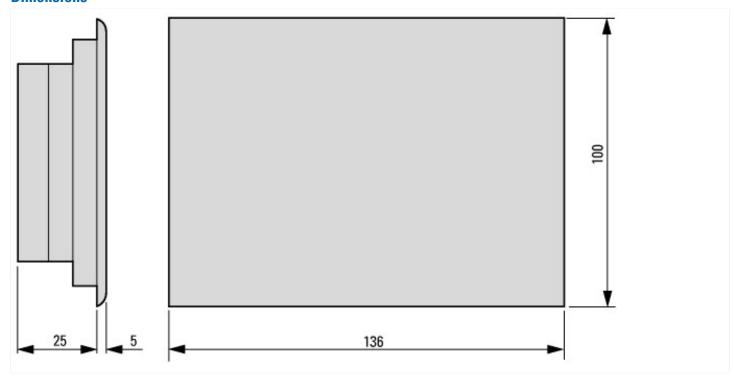
Number of HW-interfaces USS 1 Number of HW-interfaces Wireless 0 Number of HW-interfaces Wireless 1 Number of HW-interfaces Wireless 4 Win SW interfaces 4 Supporting protocol for CAN 6 Supporting protocol for CAN No Supporting protocol for ASI No Supporting protocol for MIVERBUS No Supporting protocol for SUPPORTET IO No Supporting protocol for SERODOS No Supporting protocol
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Radio standard GSM Radio standard UMTS No IO link master No Type of display With colour display Yes
10 link master No Type of display TFT With colour display Yes
Type of display TFT With colour display Yes
With colour display Yes
With colour display Yes
Number of grey-scales/blue-scales of display 0
Screen diagonal inch 3.5
Number of pixels, horizontal 320
Number of pixels, vertical 240
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
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	136
Height of the front	mm	100
Built-in depth	mm	25

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 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, I	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 programming - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048008ZU_EN.pdf