

Touch display for easyE4, 24 V DC, 3.5z, TFTcolor, ethernet

Part no. XV-102-A0-35TQRB-1E4 198513

General specifications	
Product name	Eaton XV-102 Touch panel
Part no.	XV-102-A0-35TQRB-1E4
EAN	7640130099500
Product Length/Depth	136 millimetre
Product height	30 millimetre
Product width	100 millimetre
Product weight	0.24 kilogram
Compliances	Eaton supports the product until its end of life
Certifications	UL 60950-01 CUL508 UL File No.: E208621 Certified by UL for use in Canada CSA Class No.: NWGQ8 UL Category Control No.: NWGQ2 EAC CSA-C22.2 No. 60950-1 UL report applies to both US and Canada CE marking IEC/EN 61131-2 UL Recognized
Product Tradename	XV-102
Product Type	Touch panel
Product Sub Type	None
Features & Functions	
Enclosure material	Plastic
Features	Fanless CPU and system cooling, natural convection-based passive cooling UL508, cUL approvals Ethernet interface Slot for SD card USB device
Fitted with:	1 x USB host (built-in interface) 1 x Ethernet 100base-TX/10base-T (built-in interface) Printer output Color display Numeric keyboard SW interfaces Message system (incl. buffer and confirmation) Message indication Recipes Alpha numeric keyboard
Functions	Additional software components, loadable Process default value (input) possible Process value representation (output) possible
General information	
Battery runtime	Back-up of real-time clock: CR 2032, non-replaceable (soldered)
Conditions of acceptability	The investigated Pollution Degree is: 2 The unit must be supplied via a SELV source. The following end-product enclosures are required: Fire The provided Ethernet Connection is only allowed to connect to inhouse networks. UL/CSA
Degree of protection	IP20, rear (according to EN 60529-1)
Degree of protection (front side)	NEMA 4X IP65
Fuse type	Built-in fuse (not accessible)
Model	Plastic enclosure and glass panel in plastic frame
Mounting method	Flush mounting - Inclination from vertical: $\pm 45^{\circ}$ (if using natural convection) Flush mounting - Clearance: Width x Height x Depth \geq 30 mm (1.18") Flush mounting
Product category	XV-100
RoHs conformity	Yes
Software	GALILEO, Visualization software, Engineering

Туре	Touch display for easyE4
Used with	EASY-E4
Voltage type	DC
Ambient conditions, mechanical	
Shock resistance	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 18 Impacts
Vibration resistance	According to IEC/EN 60068-2-6
Climatic environmental conditions	
Air pressure	795 - 1080 hPa (operation)
Ambient operating temperature - min	0 °C
Ambient operating temperature - max	50 °C
Ambient storage temperature - min	-20 °C
Ambient storage temperature - max	0° C
Environmental conditions	Condensation: prevent with appropriate measures
Operating temperature - min	0 °C
Operating temperature - max	50 °C
Relative humidity	10 - 90 % (non-condensing)
Electrical rating	
Power consumption	5 W 9.5 W total 2.5 W (USB Slave to USB Host)
Rated control supply voltage	24 V DC (UAUX, -20 %/+25 %)
Rated operational voltage	24 V DC (power-supply - safety extra low voltage)
Supply voltage at AC, 50 Hz - min	0 V AC
Supply voltage at AC, 50 Hz - max	0 V AC
Supply voltage at DC - min	20.4 V DC
Supply voltage at DC - max	28.8 V DC
Communication	
Interfaces	USB 2.0 host (not galvanically isolated) Ethernet (100Base-TX/10Base-T)
Number of slots	1 (for SD-Card)
Protocol	TCP/IP MODBUS Other bus systems EtherNet/IP
Display	
Display lighting	Dimmable via software LED
Display size	70 x 53 mm
Display type	Standard front with standard membrane (fully enclosed) Color display, TFT TFT
Number of colors of the display	65536
Screen size (diagonal)	3.5 in
Touch technology	Glass with film touch sensor Resistive touch
Input/Output	
Resolution	QVGA 320 x 240 px
Safety	
Explosion safety category for gas	Explosion protection according to EN 60079-0 Explosion protection according to EN 61241-1 Explosion protection according to EN 13463_x
Protection against polarity reversal	Yes
System	
Memory	SD Memory Card Slot: SDA Specification 1.00 (External)
Memory capacity	64,000 kByte
Operating system	Windows CE 5.0 (license included)
Processor	RISC CPU, 32 Bit, 400 MHz
Design verification	

5 W
0 W
0 W
5 W
Meets the product standard's requirements.
Please enquire
Does not apply, since the entire switchgear needs to be evaluated.
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Does not apply, since the entire switchgear needs to be evaluated.
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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.
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The device meets the requirements, provided the information in the instruction

Technical data ETIM 9.0

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Programmable logic controllers PLC (EG000024) / Graphic panel (EC001412)					
Electric engineering, automation, process control engineering / Display and control component / Panel (HMI) / Graphic panel (HMI) (ecl@ss13-27-33-02-01 [AFX016008])					
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 (supply voltage)		DC			
Power consumption	W	2.5			
Number of HW-interfaces industrial Ethernet		1			
Number of 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 USB		1			
Number of HW-interfaces parallel		0			
Number of HW-interfaces wireless		0			
Number of HW-interfaces other		0			
With SW interfaces		Yes			
Supporting protocol for EtherCAT		No			
Supporting protocol for TCP/IP		Yes			
Supporting protocol for PROFIBUS		No			
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 No
Supporting protocol for Foundation Fieldbus		No V-
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
10 link master		No
Type of display		TFT
Colour display		Yes
Number of colours of the display		65536
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
Touch technology		Resistive touch
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
With printer output		Yes
Number of online languages		100
Additional software components, loadable		Yes
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		4X
Certified for UL hazardous location class I		No
Certified for UL hazardous location class II		No
Certified for UL hazardous location class III		No
Certified for UL hazardous location division 1		No
Certified for UL hazardous location division 2		No
Certified for UL hazardous location group A (acetylene)		No
Certified for UL hazardous location group B (hydrogen)		No
Certified for UL hazardous location group C (ethylene)		No
Certified for UL hazardous location group D (propane)		No
Certified for UL hazardous location group E (metal dusts)		No

Certified for UL hazardous location group F (carbonaceous dusts)		No
Certified for UL hazardous location group G (non-conductive dusts)		No
Operating 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