Control panel with PLC, 24 VDC, 7 Inches PCT-Display, 1024x600 pixels, 2xEthernet, 1xRS232, 1xRS485, 1xCAN, 1xProfibus, 1xSD card slot



XV-303-70-C02-A00-1C Part no.

179654

**EL Number** (Norway)

4501319

Product reame  Part no. EAN WYSDSP ECE_AND-1 C THOUSE HEIGHT STATE THE THE THE THE THE THE THE THE THE T	(Norway)	
Part no.  EAN PASSETIP-COZ-A09 1C Product Length/Right Product Length/Right Product Length/Right Product Length/Right Product Length Product Start		
EAN Product length Disprise Product sheight Product sheight Product weight Product weight Product weight Product weight Certifications Product weight Certifications Product Sheight Product S		·
Product Lamph Depth   198 millimetre   178 millimetre		XV-303-70-C02-A00-1C
Product height         51 millimetre           Product width         135 millimetre           OR 1 biogram           Certifications         5MC according to 201 MQBCU Unit and the CPM of 1013-2 ULY OF 201 MQBCU UNIT AND CPM (CPM of 1013-2 ULY OF 201 MQBCU UNIT AND CPM of 1013-2 ULY OF 201 MQBCU UNIT AND CPM of 1013-2 ULY OF 201 MQBCU UNIT AND CPM of 1013-2 ULY OF 201 MQBCU UNIT AND CPM of 1013-2 ULY OF 201 MQBCU UNIT AND CPM of 1013-2 ULY OF 201 MQBCU UNIT AND CPM of 1013-2 ULY OF 201 MQBCU UNIT AND CPM of 1013-2 ULY OF 201 MQBCU UNIT AND CPM of 201 MQBCU UNIT		7640130098695
Product veight         £ 1 ki jognam           Certifications         £ 2 ki jognam           Certifications         £ 2 ki jognam           Excentifications         £ 2 ki jognam           Li Kinner         £ 2 ki jognam           Li Kinner         £ 2 ki jognam           Product Traderiamm         x 2 ki jognam           Product Sun Type         None           Product Sun Type         None           Catalog Rones         11 s War brasis devoire a 2.5 W for USB module           Heat classaption with power consumption for 24 V         Lenner certification in clusters           Product Sun Type         None           Enclosure material         I naculated material           Features         3 kinner for Six card           Sixt for Six Card         1 kinner for Six Card           Fix dewrite         2 kinner for Six Card           Fix dewrite </td <td>Product Length/Depth</td> <td>196 millimetre</td>	Product Length/Depth	196 millimetre
Product weight   B.81 kilogram   B.40 according to 2014/30/EU   U.1 Fish No. 2505/69   EC.EM 513-12   U.1	Product height	51 millimetre
Eff. according to 291436 FU   U. Far lew 1-22016 File l	Product width	135 millimetre
U.F. in Not.: 2009(Sh 1313-2 U. U. 1017-2 21)   Cartified by U.f. or use in Canada CE	Product weight	0.81 kilogram
Product Type   Product Sub Type   Catlog Notes	Certifications	UL File No.: E205091 IEC/EN 61131-2 UL DNV GL UL 61010-2-201 Certified by UL for use in Canada CE EN 50178
Product Sub Typo  Catalog Notes  Catalog  Cat	Product Tradename	XV-303
Catalog Notes	Product Type	Touch panel
Heat dissipation with power consumption for 24 V License certificates for nobrard interfaces not required Optionally with SD card -> article no. 181638  Final PLC license inclusive  Insulated material  Features  Insulated material  Features  Operating System Windows Embedded Compact 7 pro Slot for SD card NS227 Integrated Runtime visualization software license under the compact of process of Burning System Windows Embedded Compact 7 pro Slot for SD card NS227 Integrated Runtime visualization software license under the compact of process of Burning visualization Ethernet interface USB device nS485 Fanless CPU and system cooling, natural convection-based passive cooling CAN  Fitted with:  Fitted	Product Sub Type	None
Color display	Catalog Notes	Heat dissipation with power consumption for 24 V License certificates for onboard interfaces not required Optionally with SD card -> article no. 181638
Color display		
Slot for SD eard RS232   Regarded Runtime visualization software license Portrait forms   USB Host Target and web visualization Ethernet interface USB device RS485   Failess CPU and system cooling, natural convection-based passive cooling CAN    Fitted with: Color display Message indication Printer output 1 x USB host 2.0 (built-in interface)   Wessage indication Printer output 1 x USB host 2.0 (built-in interface)   1 x RS485 (built-in interface)   1 x RS		
Message indication Printer output 1 x USB host 2.0 (built-in interface) MPI interface 1 x USB device (built-in interface) 1 x RS485 (built-in interface) 1 x RS485 (built-in interface) 2 x Ethernet 10/100 Mbps (built-in interface) 8 Recipes 1 x PROFIBUS/MPI (built-in interface) 1 x RS232 (built-in interface) 1 x RS232 (built-in interface) Message system (incl. buffer and confirmation) SW interfaces Process value representation (output) possible Process default value (input) possible Additional software components, loadable  Battery runtime Back-up of real-time clock: BR 2330, non-replaceable (soldered) Pegree of protection  NEMA 12 NEMA 12 NEMA 12 PR65	reatures	Slot for SD card RS232 Integrated Runtime visualization software license Portrait format USB Host Target and web visualization Ethernet interface USB device RS485 Fanless CPU and system cooling, natural convection-based passive cooling
Additional software components, loadable  Battery runtime  Back-up of real-time clock: BR 2330, non-replaceable (soldered)  NEMA 12 NEMA 4X IP20, rear (according to EN 60529-1)  Degree of protection (front side)  NEMA 12 IP65		Message indication Printer output  1 x USB host 2.0 (built-in interface) MPI interface 1 x USB device (built-in interface) 1 x RS485 (built-in interface) 2 x Ethernet 10/100 Mbps (built-in interface) Recipes 1 x PR0FIBUS/MPI (built-in interface) 1 x CANopen®/easyNet (built-in interfaces) 1 x RS232 (built-in interface) Message system (incl. buffer and confirmation) SW interfaces  Process value representation (output) possible
Degree of protection  NEMA 12 NEMA 4X IP20, rear (according to EN 60529-1)  Degree of protection (front side)  NEMA 12 IP65		Additional software components, loadable
NEMA 4X IP20, rear (according to EN 60529-1)  Degree of protection (front side)  NEMA 12 IP65		
IP65	Degree of protection	NEMA 4X
Fuse type Built-in fuse (not accessible)	Degree of protection (front side)	
	Fuse type	Built-in fuse (not accessible)

Lifespan	50,000 h (Service life of back-lighting)
Model	Plastic enclosure and glass panel in plastic frame
Mounting method	Flush mounting - Clearance: Width x Height x Depth $\geq$ 30 mm (1.18") Flush mounting - Inclination from vertical: $\pm 45^{\circ}$ (if using natural convection) Flush mounting
Potential isolation	Power supply: no
Protection against polarity reversal	Yes, for supply voltage (Siemens MPI optional)
Product category	HMI-PLC (integrated SPS function)
RoHs conformity	Yes
Software	XSOFT-CODESYS-2, PLC-Programming software, Engineering GALILEO, Visualisation software, Engineering XSOFT-CODESYS-3, PLC-Programming software, Engineering XSOFT-CODESYS, Visualisation software, Engineering
Туре	Control panel with PLC, PROFIBUS, and 2nd Ethernet port
Voltage type	DC
Shock resistance	15 g, 11 ms, Mechanical
Vibration resistance	5 - 9 Hz, ± 3.5 mm 9 - 60 Hz, ± 0.15 mm 60 - 150 Hz, ± 2 g
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	60 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-3 Dry heat to IEC 60068-2-2 Cold to EN 60068-2-1
Environmental conditions	Condensation: Non-condensing
Operating temperature - min	0 °C
Operating temperature - max	50 °C
Relative humidity	10 - 95 % (non-condensing)
Emitted interference	According to IEC/EN 61000-6-4
Interference immunity	According to EN 61000-6-2
Voltage dips	≤ 10 ms from rated voltage (24 V DC) 5 ms from undervoltage (19.2 V DC)
Permissible voltage	35 V DC (for a duration of < 100 ms) 18.0 - 31.2 V DC, absolute with ripple 19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %) 18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %)
Power consumption	Max. 14.4 W 14 W typ.
Rated operational voltage	24 V DC (power-supply - safety extra low voltage)
Supply voltage at AC, 50 Hz - min	OVAC
Supply voltage at AC, 50 Hz - max	0 V AC
Supply voltage at DC - min	19.2 V DC
Supply voltage at DC - max	30 V DC
Communication interface	PROFIBUS-DP, not galvanically isolated, 9 pole SUB-D socket, UNC
Interfaces	RS485 (not galvanically isolated, 9-pin SUB-D plug, UNC) 10/100 Mbps Ethernet connection CAN (not galvanically isolated, 9-pin SUB-D plug, UNC) USB 2.0 device (not galvanically isolated) RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC) USB 2.0 host (not galvanically isolated)
Number of slots	1 (for SD-Card)
Protocol	EtherNet/IP PROFIBUS CAN TCP/IP MODBUS

Disular contract vatio	050.1
Display contrast ratio	850:1
Display lighting	Dimmable via software LED
Display size	153.6 x 90.0 mm 16:9
Display type	Color display, TFT, anti-glare Anti-glare tempered glass in plastic bezel TFT
Luminance intensity	400 cd/m <sup>2</sup>
Number of colors of the display	16777216
Resolution	1024 x 600 px WSVGA
Screen size (diagonal)	7 in
Touch technology	Projected Capacitive Touch (PCT) Capacitive multitouch Multi-touch touch panel touch sensor
Backup time	10 years, typ. (time at zero voltage)
Memory	DRAM: 512 MByte RAM Flash: 1 GByte SLC SD card, Type: SDSC, SDHC (external memory) NVRAM: 128kByte Retain
Memory capacity	512,000 kByte
Operating system	Windows Embedded Compact 7 Pro
Processor	ARM Cortex-A9 800 MHz
Equipment heat dissipation, current-dependent Pvid	14.4 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)	0 A
Static heat dissipation, non-current-dependent Pvs	14.4 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 8.0**

Programmable logic controllers PLC (EG000024) / Graphic panel (EC001412)			
Electric engineering, automation, process control engineering / Display and control component / Panel (HMI) / Graphic panel (HMI) (ecl@ss10.0.1-27-33-02-01 [AFX016003])			
Supply voltage AC 50 Hz	V	0 - 0	
Supply voltage AC 60 Hz	V	0 - 0	

Supply voltage DC	V	19.2 - 30
	V	DC
Voltage type of supply voltage		
Number of HW-interfaces industrial Ethernet		2
Number of interfaces PROFINET		0
Number of HW-interfaces RS-232		1
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		2
With SW interfaces		Yes
Supporting protocol for TCP/IP		Yes
Supporting protocol for PROFIBUS		Yes
Supporting protocol for CAN		Yes
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 No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No No
Supporting protocol for other bus systems		No No
Radio standard Bluetooth		No No
Radio standard Wi-Fi 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
10 link master		No
Type of display		TFT
With colour display		Yes
Number of colours of the display		16,777,216
Number of grey-scales/blue-scales of display		0
Screen diagonal	inch	7
Number of pixels, horizontal		1,024
Number of pixels, vertical		600
Useful project memory/user memory	kByte	512,000
With numeric keyboard		No
With alpha numeric keyboard		No
Number of function buttons, programmable		0
Number of buttons with LED		0
Number of system buttons		1
Touch technology		Capacitive multitouch

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		12
Operating temperature	°C	0 - 50
Rail mounting possible		No
Wall mounting/direct mounting		No
Suitable for safety functions		No
Width of the front	mm	196
Height of the front	mm	135
Built-in depth	mm	43.1