



Panel-PC, capacitive multi-touch (PCT), 10.1", 2xEthernet, 4xUSB3.0, 1xRS232/RS422/485, 1x HDMI, 1 xDP, Slot for SD card, Galileo Runtime License, Windows 10 Enterprise LTSC, ATEX certification



Part no. XP-504-10-A10-A01-2B
Catalog No. 199996

Delivery program

Product range			Visualisation solutions XP
Product range			IPC XP-504
Subrange			Panel-PC
Function			Industrial PC
Description			Panel PC, industrial PC for flush mounting with Capacitive multi-touch screen (PCT) up to two XP-504 series terminals can be connected
Common features of the model series			DualCore CPU 1,60 GHz Powerful graphic processor 8 GB RAM 64 GB mSATA 8-GB SD card
Display - Type			Color display, TFT
Touch-technology			Capacitive multi-touch technology (PCT)
Number of colours			262144 colors
Resolution		Pixel	1280 x 800 WXGA+
Portrait format			yes (at max.T + 45°C)
Screen diagonal		Inch	10.1 widescreen
Model			Glass front in aluminum frame, housing made from galvanized sheet steel, aluminum heat sink
Operating system			Windows 10 Enterprise LTSC
PLC-licence			Not offered by Eaton
License certificates for onboard interfaces			Not required
built-in interfaces			2 x Ethernet 1000/100/10 Mbps 4 x USB 3.0 1 x RS232/RS422/485 1 x DP 1 x HDMI
Front type			Tempered glass with anti-reflective coating
Utilization			Flush mounting
Slots			for SD card: 1
Memory card automation			Optionally with SD card -> article no. 181638
Pluggable communication cards (optional)			no
Touch sensor			Multi-touch touch panel
Heat dissipation		W	38.4

Technical data

Display			
Display - Type			Color display, TFT
Screen diagonal		Inch	10.1 widescreen
Resolution		Pixel	1280 x 800 WXGA+
Visible screen area		mm	222.72 x 125.28
Format			16:10
Viewing range	[left/right/up/down]	° (Degrees)	85°/85°/80°/80°
Number of colours			262144 colors
Contrast ratio (Normally)			Normally 900:1
Brightness		cd/m ²	Normally 500

Back-lighting			LED dimmable via software
Service life of back-lighting		h	Normally 50000

Operation

Technology			Projected Capacitive Touch (PCT)
Touch sensor			Multi-touch touch panel

System

Processor			Intel Atom E3950 QuadCore 2 GHz
Internal memory			64 GB mSATA
External memory			SD card type: SD or SDHC in accordance with the SDA 2.0 specification, min. 8 GB
Cooling			Fanless CPU and system cooling, natural convection-based passive cooling
Back-up of real-time clock			
Battery (service life)			austauschbar, Lithium Panasonic BR2032 (3V, 190mAh) für BIOS, typisch 5 Jahre
Backup (time at zero voltage)			Normally 5 years

Engineering

Visualisation software			Galileo or 3rd party
PLC-licence			Not offered by Eaton
Operating system			Windows 10 Enterprise LTSC

Interfaces, communication

built-in interfaces			2 x Ethernet 1000/100/10 Mbps 4 x USB 3.0 1 x RS232/RS422/485 1 x DP 1 x HDMI
USB Host			4 x USB 3.0
RS-232			Not galvanically isolated, 9-pin D-sub plug, UNC
RS-485			Not galvanically isolated, 9-pin D-sub plug, UNC
Slots			for SD card: 1
Ethernet			1000/100/10 Mbps

Power supply

Nominal voltage			24 V DC SELV (safety extra low voltage)
permissible voltage			18-36 V DC
Power consumption	P _{max.}	W	29
Heat dissipation		W	38.4
Current consumption	I	A	max. 1.6 A

General

Housing material			Frame made of milled aluminum
Front type			Tempered glass with anti-reflective coating
Dimensions (W x H x D)		mm	280.5 x 199.2 x 89
flush mounted			Clearance: W x H ≥ 50 mm (1.97"), T ≥ 20 mm (0.79") Inclination from vertical: +45° ≤ α ≤ -10° at operating temperatures ≤ 45°C (113°F) (if using natural convection) Mounting plate: min. 1.5 mm (0.06"), max. 4 mm (0.16")
Weight		kg	2.7
Degree of protection (IEC/EN 60529, EN50178, VBG 4)			IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1), NEMA12 (as per NEMA 250-2003)
Approvals			
Approvals			UL
certificate			CE, UKCA
Explosion protection (according to ATEX 94/9/EC)			II 3D Ex tc IIIC T70°C U
Applied standards and directives			
EMC			according to 2004/108/EC
Emitted interference			As per EN 55022:2010 Class A and EN 61000-6-4:2007
Interference immunity			As per EN 55024:2010 and EN 61000-6-2:2005 EN 61131-2:2007
Free fall, packaged		m	gemäß ICE/EN 60068-2-32
RoHS			conform

Environmental conditions

Climatic environmental conditions			
Air pressure (operation)		hPa	795 - 1080
Temperature			

Storage / Transport	0	°C	-20 - +60
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	+ 45
Relative humidity			
Condensation			Non-condensing
Relative humidity			20–85%, non-condensing

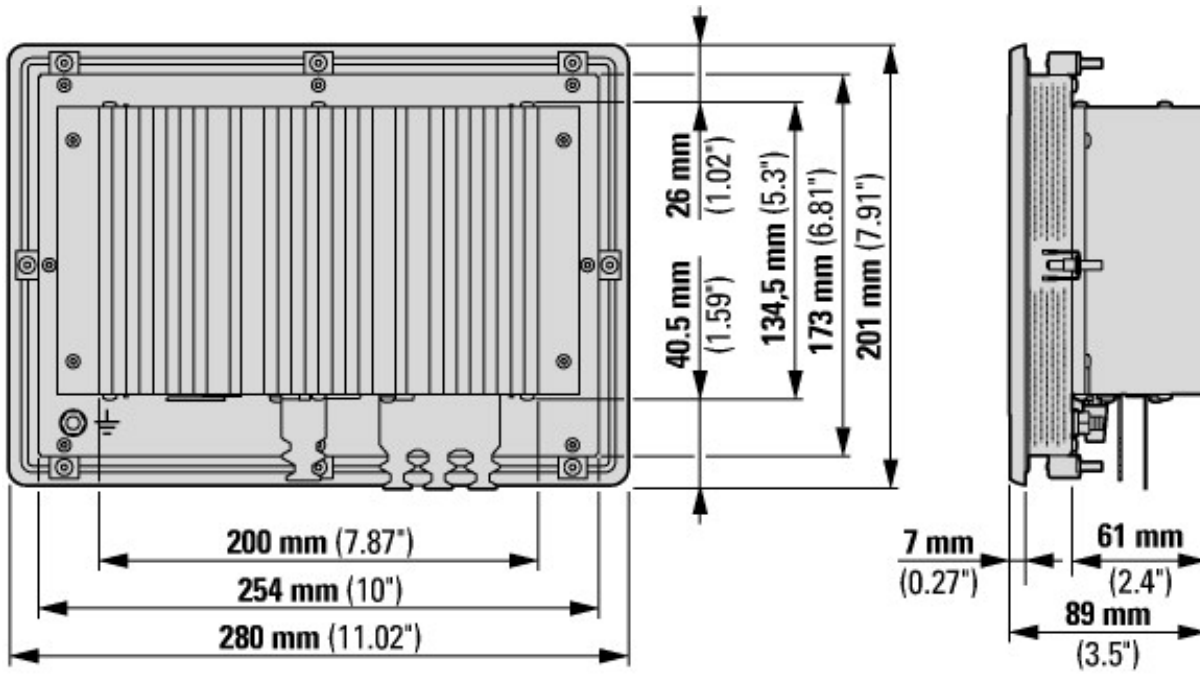
Design verification as per IEC/EN 61439

Technical data for design verification			
Static heat dissipation, non-current-dependent	P _{vs}	W	38.4
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	45
Degree of Protection			IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1) NEMA12 (as per NEMA 250-2003) UL: 50E, Type 4X (indoor use), Type 12 (at the front)
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 to enclosures without lifting aids.
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			Is the panel builder's responsibility.
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.

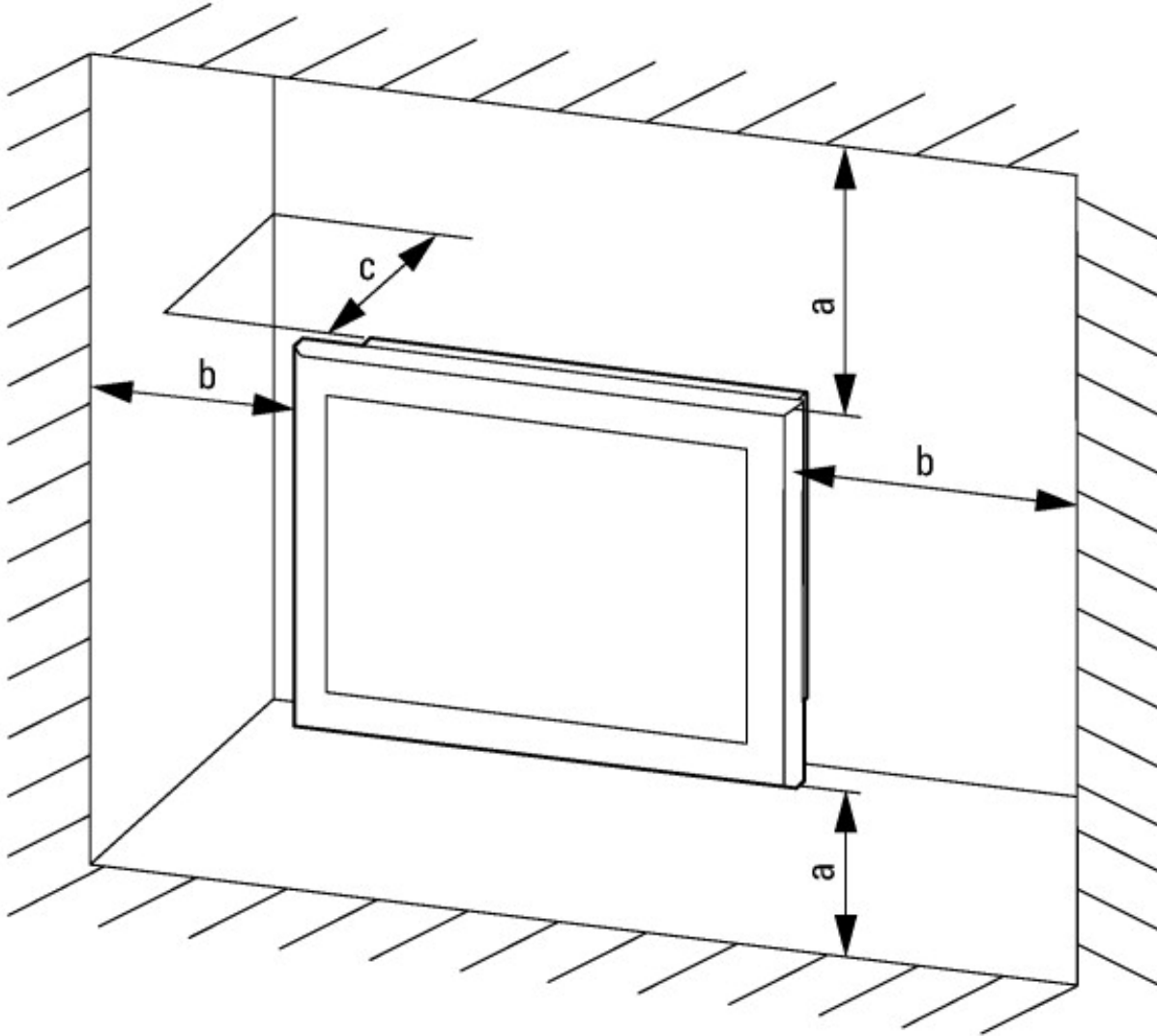
Approvals

Product Standards			UL61010-1
UL File No.			E205091
CSA File No.			UL report applies to both US and Canada
North America Certification			UL recognized, certified by UL for use in Canada
Specially designed for North America			No
Degree of Protection			IEC: IP65

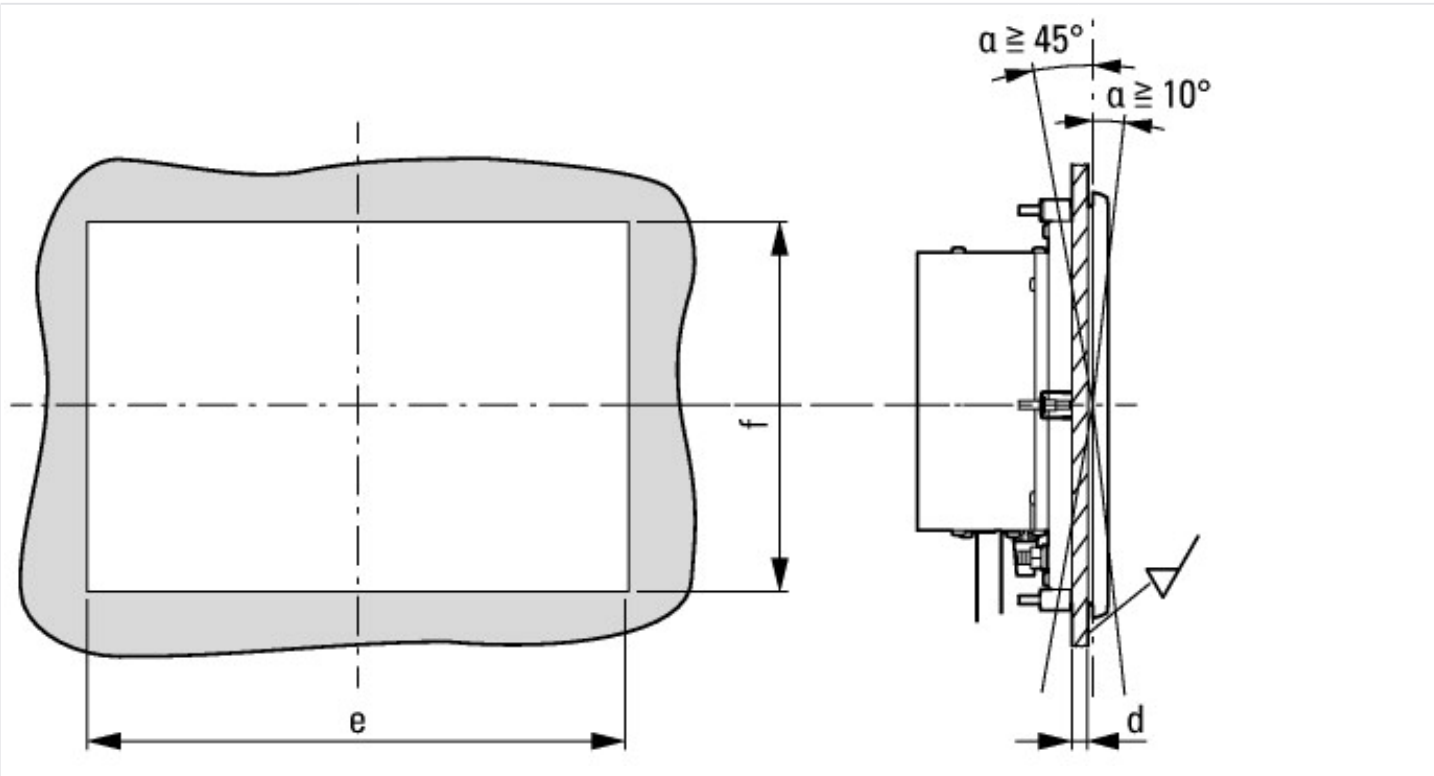
Dimensions



XP-504 industrial PC with 10.1" screen diagonal



$a, b \geq 50 \text{ mm}$, $c \geq 20 \text{ mm}$, $0 \leq T \leq 45 \text{ }^\circ\text{C}$



1,5 mm ≤ d ≤ 4 mm, e = 261 mm, f = 164 mm, α = 10°

Additional product information (links)

Montageanweisung XP-504 IL048016ZU

Montageanweisung XP-504 IL048016ZU https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL048016ZU.pdf

XP-504 MN048028 manual

Handbuch XP-504 MN048028 - Deutsch https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN048028DE.pdf

XP-504 MN048028 manual - English https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN048028EN.pdf

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