

BACnet/IP Touch panels 7.0", 10.1" and 15.6"

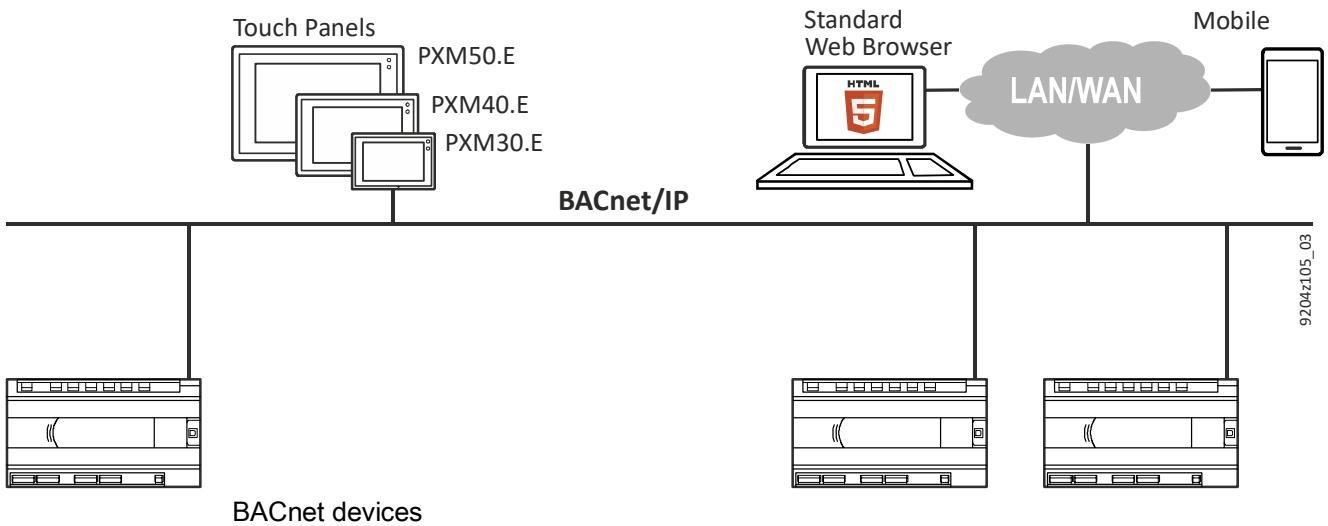
PXM30.E, PXM40.E, PXM50.E and wall-mount frames PXA.V40, PXA.V50



High-quality touch panels for technical on-site operation of plants as well as room operation.

- Optimized for local on-site operation of the Desigo building automation and control system
- Integrated web server with HTML5.0 interface
- Generic operation and monitoring of plant functions (alarms, schedulers, calendars, setpoint changes, display of actual values, etc.)
- Offline engineering of customized graphics with ABT site
- Compact design featuring a low installation depth for mounting in panel doors
- Wall mounting with installation frames for PXM40.E, PXM50.E (ordered separately)
- High-resolution, capacitive touch displays (landscape)
- LED to display alarms on an inactive screen
- Operating voltage AC 24 V, DC 24 V, or Power over Ethernet (PoE) (PXM40.E and PXM50.E)

Use

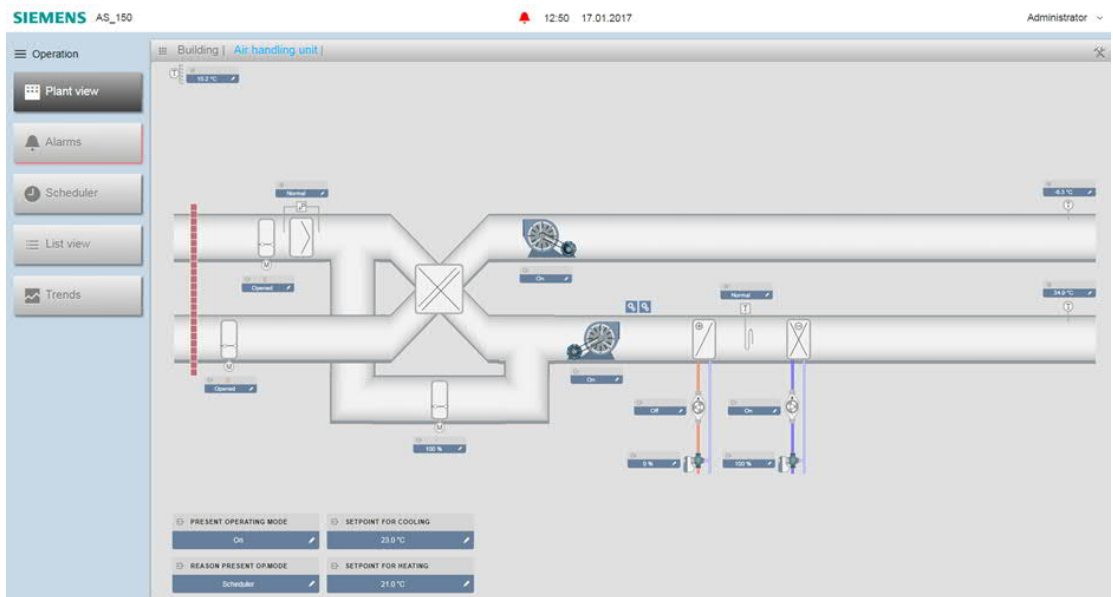


Touch panels are highly flexible and scalable:

- Plant operation by technicians
- Operation of various room environments by the end user.
- Examples: Offices, conference rooms, or even entire floors

Functions

Example for a plant graphic



Settings

Different settings are available, however, for user-friendly operation of the touch panel. They can be edited after login.

For details, see "Desigo Touch Panel client commissioning", A6V11604303.

Function	Description																					
Brightness	Sets the screen's brightness.																					
Time format	24 hours or 12 hours (am/pm).																					
Date format	8 variants are available.																					
Language	Touch panel operating language: Supports 20 languages; the factory setting for the user interface is English.																					
	<table border="1"><tbody><tr><td>Arabic</td><td>Italian</td><td>Rumanian</td></tr><tr><td>Danish</td><td>Japanese</td><td>Russian</td></tr><tr><td>English</td><td>Korean</td><td>Simplified Chinese</td></tr><tr><td>Finnish</td><td>Norwegian</td><td>Traditional Chinese</td></tr><tr><td>French</td><td>Persian/Farsi</td><td>Spanish</td></tr><tr><td>German</td><td>Polish</td><td>Swedish</td></tr><tr><td>Hindi</td><td>Portuguese</td><td>Turkish</td></tr></tbody></table>	Arabic	Italian	Rumanian	Danish	Japanese	Russian	English	Korean	Simplified Chinese	Finnish	Norwegian	Traditional Chinese	French	Persian/Farsi	Spanish	German	Polish	Swedish	Hindi	Portuguese	Turkish
Arabic	Italian	Rumanian																				
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Finnish	Norwegian	Traditional Chinese																				
French	Persian/Farsi	Spanish																				
German	Polish	Swedish																				
Hindi	Portuguese	Turkish																				
Keyboard	The interaction with the keyboard is roughly the same as commercially available products such as smart phones, tablets, etc.																					
Auto logout	Time to logout: 5, 10, 15, 30, 45, 60 minutes The automatic logout can be set at intervals of 5 to 60 minutes, including the ability to suppress automatic logout for certain technical reasons.																					
Screensaver	Screensaver time: 5, 10, 15, 30, 45, 60 minutes and 10 hours Default time: 15 min.																					
Warning: Changing the screen saver time from the default setting to 10 h can reduce the device life time. The impact on the device life time must be calculated depending on the individual use case and the specified display life time (technical data p. 6).																						

Function overview

For functions and system limits, see:

BACnet systems

- Desigo Control Point Engineering manual, A6V11604297
- Desigo Control Point Basic documentation, A6V11666339

Desigo system

- Desigo Control Point Engineering manual, A6V11211560
- Desigo Control Point Basic documentation, A6V11170804

Type summary

Type	Stock number	Description
PXM30.E	S55623-H128	BACnet/IP Touch Panel 7" with integrated web server
PXM40.E	S55623-H129	BACnet/IP Touch Panel 10" with integrated web server
PXM50.E	S55623-H130	BACnet/IP Touch Panel 15" with integrated web server

Accessories

Type	Stock number	Description	Document no.
PXA.V40	S55842-Z119	Wall-mount frame for flush mounting of PXM40.E	
PXA.V50	S55842-Z120	Wall-mount frame for flush mounting of PXM50.E	
PXA.S30	S55842-Z123	Mounting set for surface mounting of PXM30.E	A6V11646070

The accessories must be ordered separately.


Document	Document no.
Desigo Control Point Basic documentation	A6V11666339
Desigo Touch-Panel Clients Commissioning	A6V11604303
Desigo Control Point Operation manual	A6V11211557
Desigo Control Point Engineering manual	A6V11604297
ABT Site Online help	--

Related documents such as the environmental declarations, CE declarations, etc., can be downloaded from the following Internet address:

<https://siemens.com/bt/download>

Notes

Safety

	<p>⚠ CAUTION</p>
	<p>National safety regulations Failure to comply with national safety regulations may result in personal injury and property damage.</p> <ul style="list-style-type: none"> • Observe national provisions and comply with the appropriate safety regulations.

Engineering

For additional information on cable lengths, topology, etc.:
 See Desigo Control Point Basic documentation, A6V11170804

Mounting

Mounting types

The devices are suitable for installation in panel doors
 Mounting frames are available for wall mounting (ordered separately, see accessories):

- PXM40.E and PXM50.E (flush mounting e.g. cavity walls)
- PXM30.E (surface mounting, e.g. panels doors or walls)

Mounting instructions

Mounting installations are printed on the unit's packaging material.

Cut outs for panel installation and wall mounting

See "Dimensions".

Installation

Power is connected to a plug-in screw terminal block.
 This connection is not required for Power over Ethernet (PoE).

Commissioning

Touch panels can be commissioned without tools.
 All necessary network parameters can be entered directly on the unit.
 No additional engineering required for operation using default views.
 Each device has a unique identification number to ensure efficient commissioning.
 It is also printed on the removable barcode label.

LED display (front side)

Color	Activity	Function
Green	Off	Device is not powered
	Flashing	Start-up or the program is stopped
	On	Device is operational
Red	Off	OK
	On	Program error Pending alarm Hardware fault
	Flashing 1 Hz	Wrong or corrupt software No application loaded Faulty server-link configuration
	Flashes in wink command rhythm	Physical device identification

Service button (rear side) *(Only for devices with series B and higher, see printing on the device)*



Press	Description
Short	Physical identification on the network (Ethernet)
As per description	Do the following to reset the device to factory state: <ol style="list-style-type: none"> 1. Power off the device. 2. Power on the device. 3. Wait until the green LED lights up and turns off again, then press the Service button. 4. Keep the Service button pressed until the green LED lights up, then release the button. 5. Wait until the device has fully started – unconfigured (LED flashes red/green) Pre-loaded apps are still available. The FW remains unchanged

Maintenance

Cleaning

Touch panels are maintenance free.

Dirt on the display can be cleaned using off-the-shelf display cleaners for smart phones, a moist rag, and/or off-the-shelf microfiber cloth for monitors or glasses.

Recommended products:

- Lysol towel
- Clorex towel
- Water with 2% alcohol
- Damp microfiber cloth
- H₂O₂ hydrogen peroxide
- Sterillium® Classic Pure

Firmware upgrade

You can update the firmware with ABT Site.

Repair

The devices cannot be repaired. The entire unit must be replaced.

Disposal

	<p>The device is considered an electronic device for disposal in accordance with the European Guidelines and may not be disposed of as domestic garbage.</p> <ul style="list-style-type: none"> • Dispose of the device through channels provided for this purpose. • Comply with all local and currently applicable laws and regulations.
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Power supply and HW information

Operating voltage Safety Extra-Low Voltage SELV or Protection by Extra Low Voltage per HD384 PoE: PoE switches and injectors must comply with IEEE 802.3at	AC 24 V ±20% (SELV / PELV) or AC 24 V class 2 (US) DC 24 V ±15% (SELV / PELV) or DC 24 V class 2 (US)		
Frequency	DC 48 V (PoE Class 4, alternative A) (PXM40.E, PXM50.E only)		
Maximum power consumption At AC 24 V At DC 24 V PoE *)	PXM30.E Max. 29 VA Max. 17 W --	PXM40.E Max. 32 VA Max. 21 W Max. 22 W *)	PXM50.E Max. 42 VA Max. 26 W Max. 25 W *)
*) Applies to normal operation. Can be higher at start-up (IEEE 802.3at Class 4)			
Processor	Texas Instruments AM5727, 1.5 GHz, Dual Core		
Storage	8 GB eMMC, 2 GB SDRAM (DDR3L)		
Operating system	Linux		
Screw terminals for wire cross sections up to	2.5 mm ²		
External supply line fusing (EU) <i>At AC / DC 24 V power</i>	Non-renewable fuse max. 10 A slow or circuit breaker max. 13 A Tripping characteristic B, C, D per EN 60898 or Power supply with current limitation of max. 10 A		

Display

	PXM30.E	PXM40.E	PXM50.E
Size	7.0"	10.1"	15.6"
Resolution	1024 x 600	1280 x 800	1366 x 768
Type	TFT		
Number of colors	16.2 mn		
Viewing angle H/V typical	120 / 110°	150 / 145°	
Backlit display	LED, dimmable		
Touch pad	Projective capacitive		
Life time @ ambient temperature 20 °C (68 °F)	30,000 hours	50,000 hours	50,000 hours

Connections

Screw terminals, plug-in	
Cu-wire or Cu-strand with wire end sleeve	1 x 0.6 mmØ to 2.5mm ² (22 to 14 AWG) or 2 x 0.6 mmØ to 1.0 mm ² (22 to 18 AWG)
Cu-strand without wire end sleeve	1 x 0.6 mmØ to 2.5 mm ² (22 to 14 AWG) or 2 x 0.6 mmØ to 1.5 mm ² (22 to 16 AWG)
Stripping length	6...7.5 mm (0.24...0.29 in)
Slotted screws	Screwdriver, size 1 with shaft Ø ≤ 4.5 mm
Max. tightening torque	0.6 Nm (0.44 lb ft)

Ethernet interface	
Plug	RJ45, screened
Interface type	100BASE-TX, IEEE 802.3 compatible
Bit rate	10/100 Mbps, autosensing
Protocol	BACnet over UDP/IP
Galvanic isolation of system neutral ↓	Yes

Interface USB 2.0	
Plug	Type B (device)
Data rate (USB 2.0 full speed)	12 Mbps
Protective switch against surges and over current	Yes
Galvanic isolation of system neutral ↓	No

Conformity

Ambient conditions and protection classification	
Assigned per EN 62368-1	<ul style="list-style-type: none"> Degree of pollution Overvoltage category
Design	Device suited for use with equipment of safety classes I and II
Degree of protection of housing to EN 60529	<ul style="list-style-type: none"> From the front From the back (panel mounted)
Climatic ambient conditions	<ul style="list-style-type: none"> Class 2K3 Temperature -25...70 °C (-13... 158 °F) Air humidity 5...90% Class 3K4 Temperature 0...40 °C (32... 104 °F) Air humidity 5...90 % (non-condensing) Class 3K5 Temperature 0...50 °C (32... 122 °F) Air humidity 5...90 % (non-condensing)
Mechanical ambient conditions	<ul style="list-style-type: none"> Class 2M2 Class 3M2
Elevation above sea level	Max. 3,000 m above sea level

Standards, directives and approvals	
Product standard EN 62368-1	Information Technology Equipment - Safety - Part 1
Electromagnetic compatibility	For residential, commercial, and industrial environments
EU conformity (CE)	See CE declaration CM1T9292xx ¹⁾
EAC compliance	Eurasian compliance
RCM Conformity	See RCM declaration CM1T9292en_C1 ¹⁾
UL approbation (US)	UL 916, http://ul.com/database
cUL-Approbation (Canada)	cUL 916, http://ul.com/database
FCC	CFR 47 Part 15 Class B
CSA certification	C22.2, www.csagroup.org/services-industries/product-listing/
BTL certified	B-OD
Environmental compatibility ¹⁾	The product environmental declaration contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

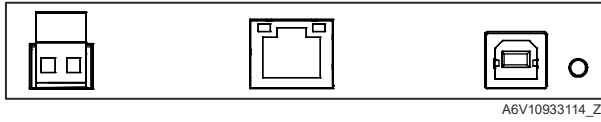
¹⁾ Documents can be downloaded at <http://siemens.com/bt/download>.

Housing

Touch panels	PXM30.E	PXM40.E	PXM50.E
Dimensions	See "Dimensions"		
Color	Plastic frame; Glass, reflecting	Matt aluminum frames; glass, reflecting	
Weight without/with packaging	1117 / 1745	1810 / 2264 g	3788 / 4662 g

Wall-mount frames	PXA.V40	PXA.V50
Dimensions	See "Dimensions"	
Color	Steel, zinc-plated	
Weight without/with packaging	1206 / 1640 g	2104 / 2917 g

Connection terminals, service button



AC / DC 24 V

LAN RJ45

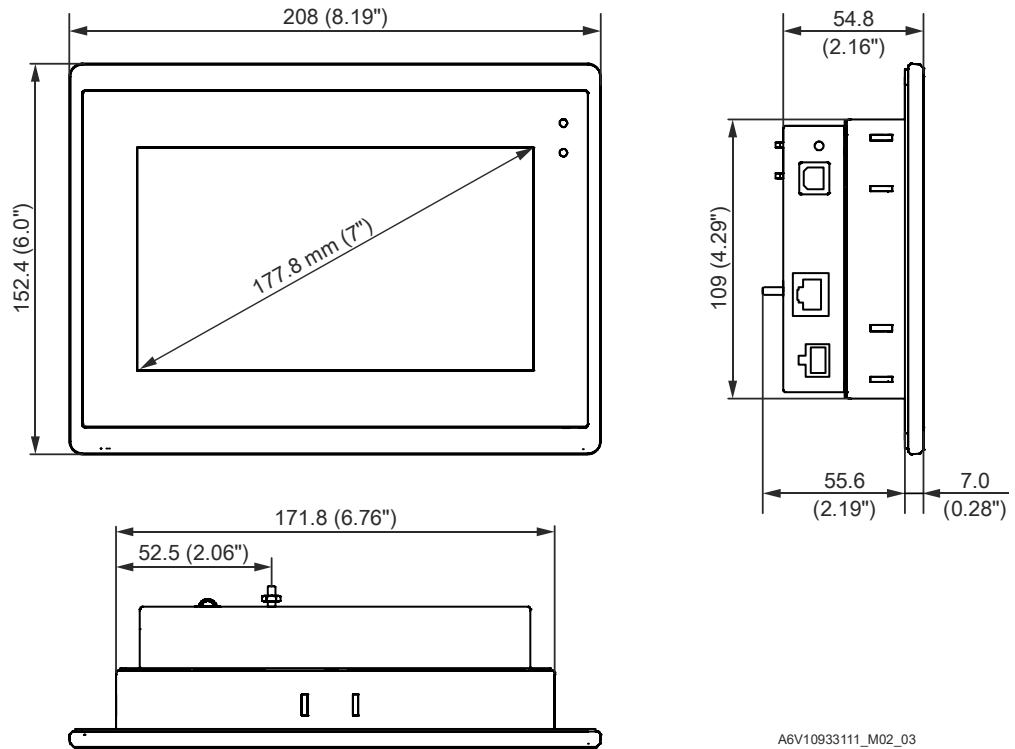
USB

Reset / series B and higher: Service button

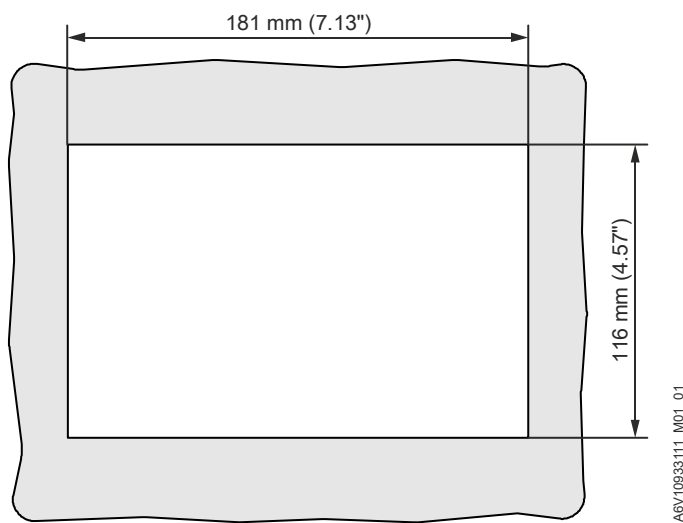
Dimensions

All dimensions provided in mm and inches.

PXM30.E

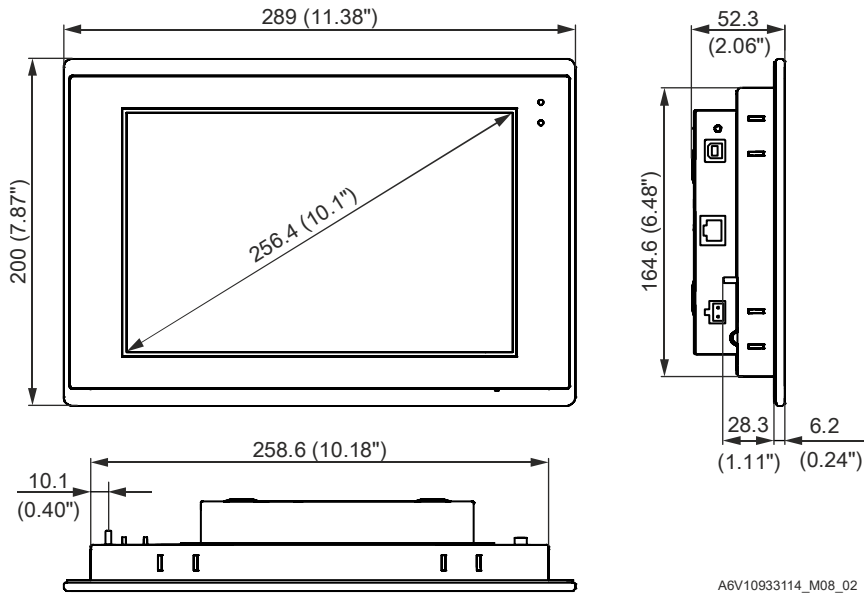


Panel cut out

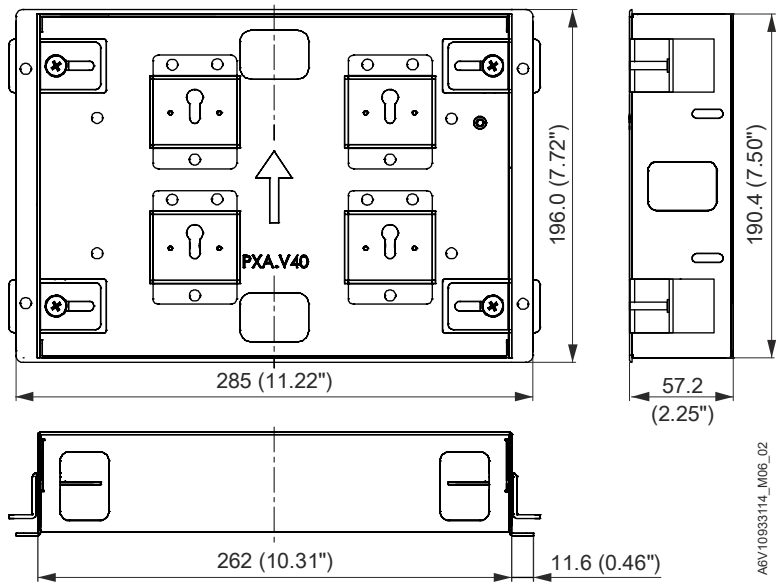


Mounting kit PXA.S30: see data sheet A6V11646070

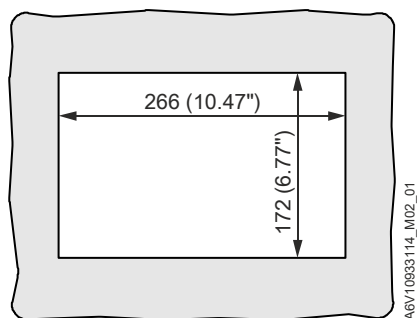
PXM40.E



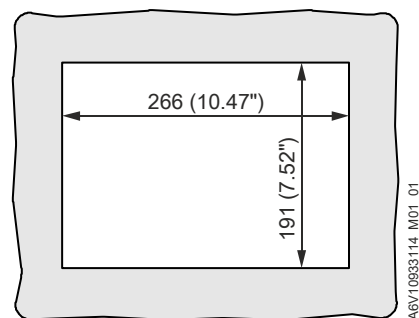
PXA.V40



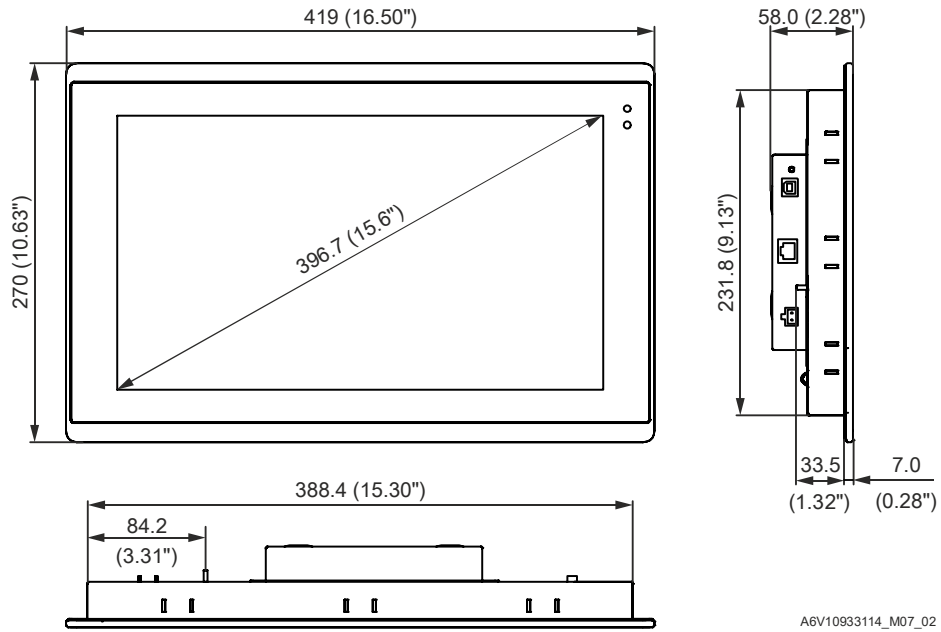
Panel cut out



Wall cut out

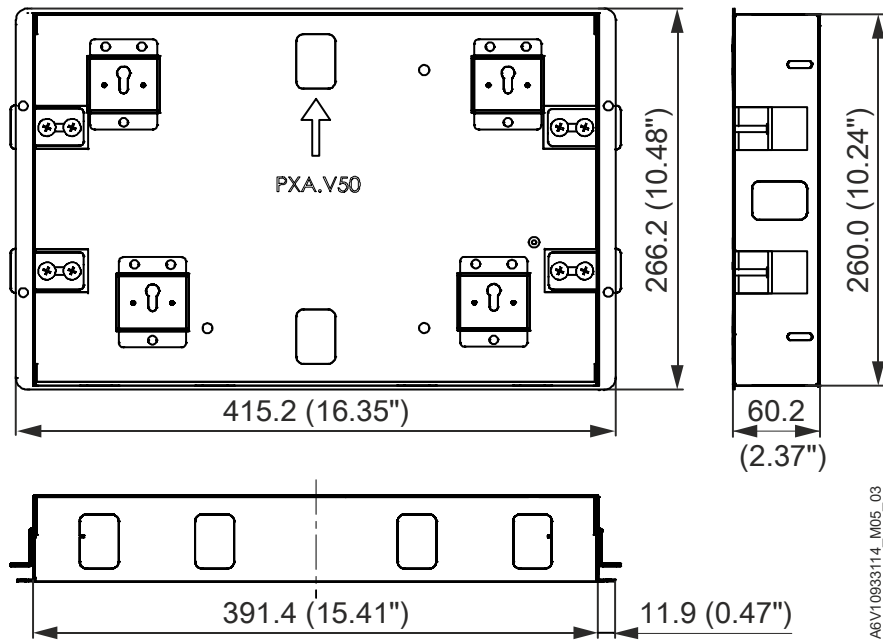


PXM50.E



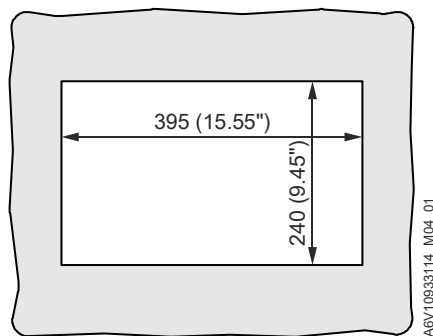
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PXA.V50



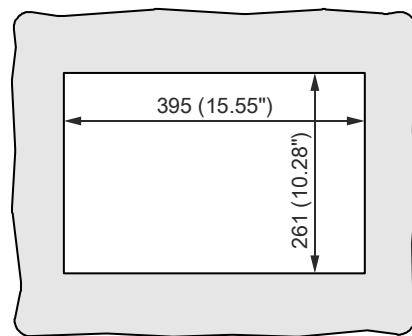
A6V10933114_M05_03

Panel cut out



A6V10933114_M04_01

Wall cut out



A6V10933114_M03_01

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