

SIMATIC HMI

HMI device MP 277

Operating Instructions

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Ex approval

The following standards and approvals are in effect for the HMI devices:

- EN 61241-0:2006
- EN 61241-1:2004

	II 3 D	Ex tD A22 IP6x T 52 °C or T 70 °C x ... Temperature value, see EC design examination certificate
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The KEMA 06ATEX0266 X test number applies to the following HMI devices:

- 6AV6643-0CB01-1AX2 (8" Touch V2)
- 6AV6643-0CB01-1AX2 (10" Touch V2)
- 6AV6643-0DD01-1AX2 (10" Key V2)
- 6AV6643-0CB01-1AX1 (8" Touch)
- 6AV6643-0CD01-1AX1 (10" Touch)
- 6AV6643-0DD01-1AX1 (10" Key)
- 6AV6643-0CB01-1AX5 (8" Touch, small frame)
- 6AV6643-0CD01-1AX5 (10" Touch, small frame)

The following standards and approvals are in effect for the 10" INOX HMI device:

- EN 60079-0:2006
- EN 60079-15:2005
- EN 61241-0:2006
- EN 61241-1:2004

	II 3 G	Ex nA II T4
	II 3 D	Ex tD A22 IP65 T 70 °C

The KEMA 08ATEX0063 X test number applies to the following HMI device:

- 6AV6643-0ED01-2AX0 (10" INOX)

The HMI devices meet the requirements of the European Directive 94/9/EG of the European Parliament and the Council on the approximation of the laws of the member states concerning equipment and protective systems intended for use in potentially explosive atmospheres.

The table below includes the associated test numbers.

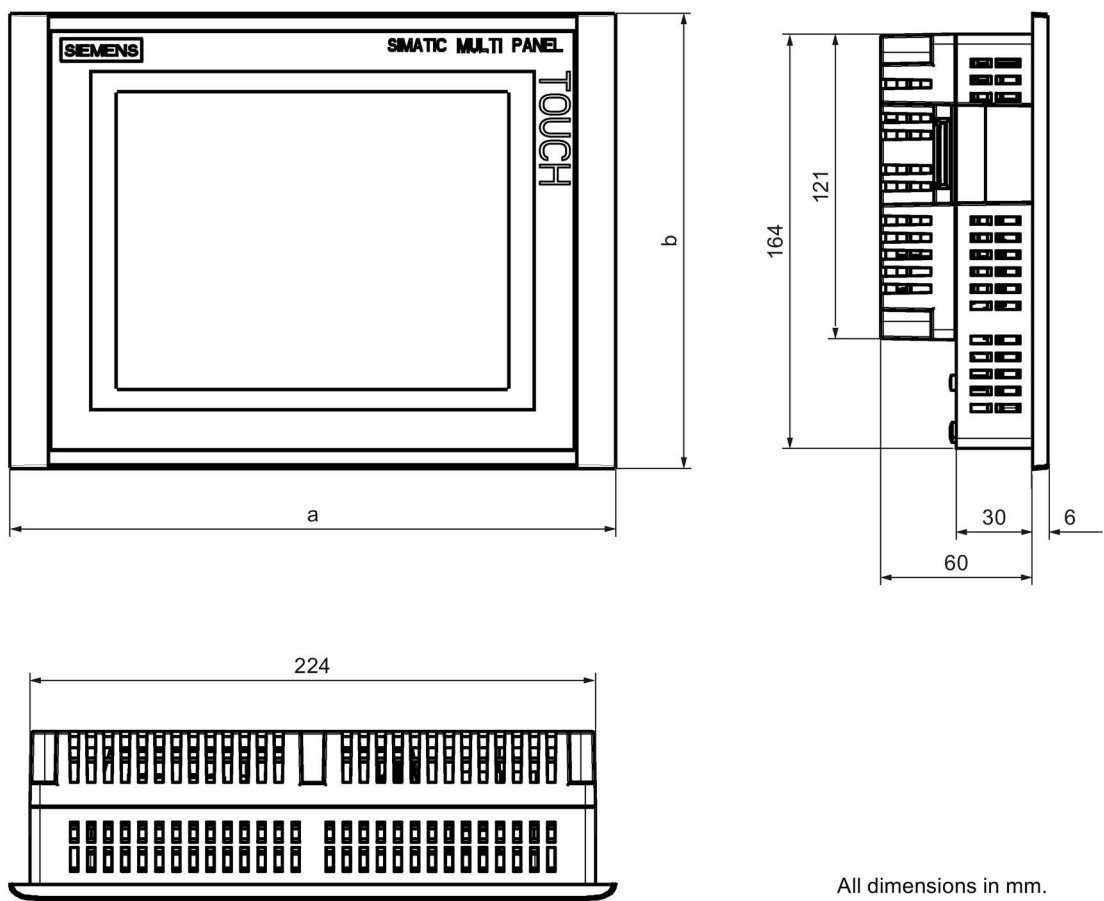
Manufacturer site	HMI device class	Test number
Siemens AG Industry Sector Werner-von-Siemens-Straße 50 D-92209 Amberg	Multi Panel	KEMA 06ATEX0266 X KEMA 08ATEX0063 X

Technical specifications

10.1 Dimension drawings

10.1.1 Dimension drawing of the MP 277 8" Touch

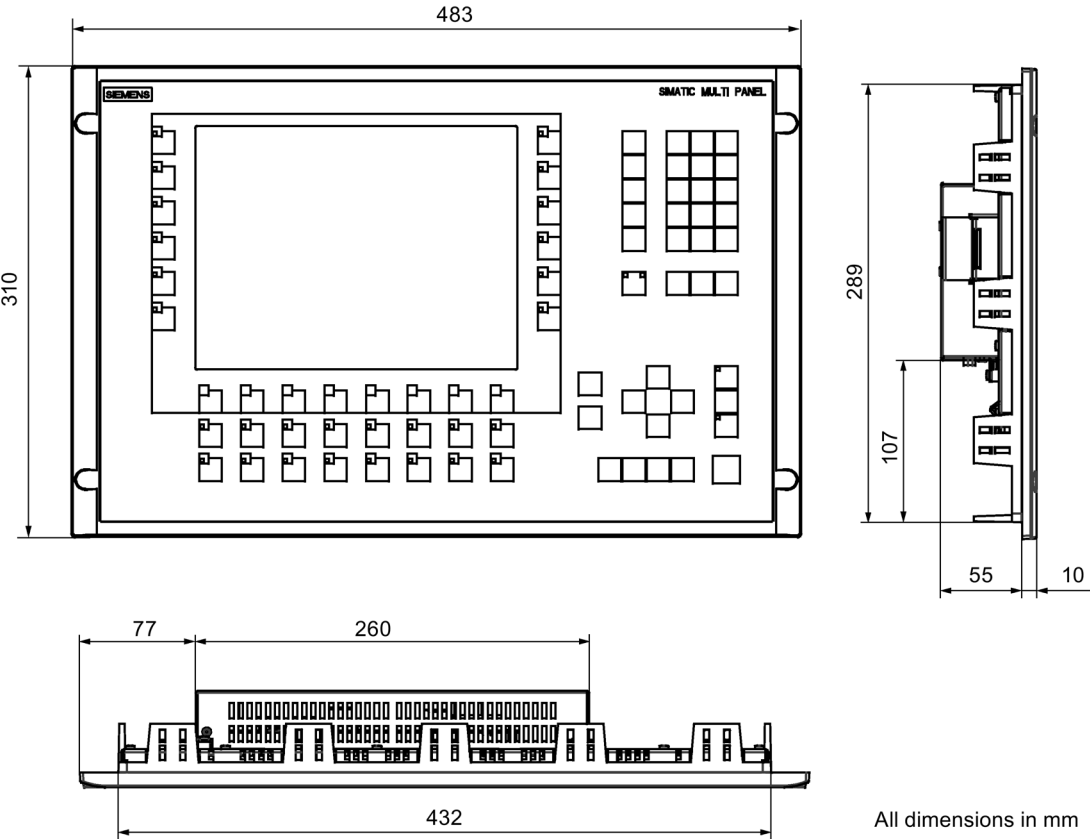
The HMI device MP 277 8" Touch is available in two enclosure models. The enclosure models have different article numbers. The article number is on the back of the HMI device.



All dimensions in mm.

Article number	a	b
6AV6643-0CB01-1AX2	250 mm	190 mm
6AV6643-0CB01-1AX1	250 mm	190 mm
6AV6643-0CB01-1AX5	240 mm	180 mm

10.1.4 Dimension drawing of the MP 277 10" Key



10.2 Specifications

10.2.1 Specifications of the MP 277 Touch

HMI device

	MP 277 8" Touch	MP 277 10" Touch
Weight without packaging	Approx. 1610 g	Approx. 2650 g

Display

	MP 277 8" Touch	MP 277 10" Touch
Display area, active	153.7 mm x 115.8 mm (7.5")	211.2 mm x 158.4 mm (10.4")
Type	LCD TFT	
Resolution	640 x 480 pixels	
Colors, displayable	64k	
Brightness control	Yes	

Input device

	MP 277 8" Touch	MP 277 10" Touch
Type	Resistive analog touch screen	

Memory

	MP 277 8" Touch	MP 277 10" Touch
Application memory	6 MB	

Ports

	MP 277 8" Touch	MP 277 10" Touch
1 x RS 422/RS 485	Max. 12 Mbps	
2 x USB	USB host; conforms to USB standard 1.1 (supporting low-speed and full-speed USB devices) Maximum load 500 mA	
1 x Ethernet	RJ45 10/100 Mbps	

Supply voltage

	MP 277 8" Touch	MP 277 10" Touch
Rated voltage	+24 V DC	
Range, permissible	20.4 V to 28.8 V (-15%, +20%)	
Transients, maximum permissible	35 V (500 ms)	
Time between two transients, minimum	50 s	

10.2 Specifications

	MP 277 8" Touch	MP 277 10" Touch
Current consumption		
• Typical	• Approx. 600 mA	• Approx. 700 mA
• Constant current, maximum	• Approx. 1000 mA	• Approx. 1100 mA
• Power on current surge I ² t	• Approx. 1 A ² s	• Approx. 1 A ² s
Fuse, internal	Electronic	

Miscellaneous

	MP 277 8" Touch	MP 277 10" Touch
Realtime clock, buffered ¹⁾	Yes	
Magnetic field intensity	50/60 Hz; 100 A/m RMS	

¹ Bridging time of the buffering, approx. 6 weeks.

10.2.2 Specifications of the MP 277 Key

HMI device

	MP 277 8" Key	MP 277 10" Key
Weight without packaging	Approx. 2250 g	Approx. 4950 g

Display

	MP 277 8" Key	MP 277 10" Key
Display area, active	153.7 mm x 115.8 mm (7.5")	211.2 mm x 158.4 mm (10.4")
Type	LCD TFT	
Resolution	640 x 480 pixels	
Colors, displayable	64k	
Brightness control	Yes	

Input device

	MP 277 8" Key	MP 277 10" Key
Type	Membrane keyboard	
Function keys	26 function keys, of which 18 with LED	34 function keys, of which 26 with LED