

OFFICIAL MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

6AV6643-0CB01-1AX1

Siemens official documentation for the exact article number.

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SIMATIC MP 277 8" TOUCH MULTI PANEL W. RETENTIVE MEMORY 7.5" TFT DISPLAY 6 MB CONFIGURING MEMORY, CONFIGURABLE WITH WINCC FLEXIBLE 2005 STANDARD SP1 ***** FOR THIS PRODUCT A DELIVERY STOP WILL BE DECLARED FROM OCTOBER 1ST, 2014. INFORMATION ABOUT SUCCESSOR SEE SIMATIC UPDATE ID: 62977695 FOR FURTHER QUESTIONS PLEASE APPROACH YOUR SIEMENS CONTACT PERSON.

General information	
customer-specific configuration	Yes
Display	
Design of display	TFT
Screen diagonal	7.5 in
Size	7.5"
Display type	TFT, 65536 colors
Number of grayscales	0
Color type	Colors
Resolution (pixels)	
horizontal image resolution	640
vertical image resolution	480
Resolution (WxH in pixel)	640 x 480
Backlighting	
MTBF backlighting (at 25 °C)	about 50,000 hours
Control elements	
Control elements	Touch screen
Operating options	Touch
Connection for mouse/keyboard/barcode reader	USB / USB / USB

Keyboard fonts	
Keys with LED	No
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Touch operation	
Touch screen	analog, resistive
Design as touch screen	Yes
Touch screen (analog/resistive)	Yes
Supply voltage	
Type of supply voltage	DC
Processor	
Processor	ARM
Processor type	ARM
Memory	
Type	Flash / RAM
usable memory for user data	6 MB usable memory for user data
Main memory	
Capacity of main memory, maximum	128 Mbyte
Time of day	
Clock	
Type	Hardware clock, battery backup, synchronizable
Hardware clock (real-time clock)	Yes
battery-backed	Yes
synchronizable	Yes
Interfaces	
Interfaces	1 x RS422, 1 x RS485, 1 x Ethernet (RJ45)
Number of RS 485 interfaces	1
USB port	2 x USB
Industrial Ethernet	
Industrial Ethernet interface	1 x Ethernet (RJ45)
Protocols	
PROFIsafe	No
PROFIBUS	Yes
Protocols (Ethernet)	
TCP/IP	Yes
Further protocols	
other bus systems	Yes
Degree and class of protection	

Front	IP65, NEMA 4x (when installed)
IP (at the front)	IP65
NEMA	NEMA 4x
Rear	IP20
IP (rear)	IP20
Standards, approvals, certificates	
Certifications	CE, FM Class I Div. 2, UL, cULus, EX Zone 22, NEMA 4x (Enclosure Type 4X, Type 12)
cULus	Yes
Suitable for safety functions	No
Use in hazardous areas	
EX zone 22	Yes
FM Class I Division 2	Yes
Ambient conditions	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	+/- 35 °
Operating temperature	
Operation	0 °C to +50 °C
Storage/transport temperature	
Transport, storage	-20 °C to +60 °C
Relative humidity	
Operation, max.	90 %
Operating systems	
Operating system	Windows CE
Configuration	
Message indicator	Yes
With alarm logging system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe administration	Yes
Configuration software	
STEP 7 Basic (TIA Portal)	No
STEP 7 Professional (TIA Portal)	No
WinCC flexible Compact	No
WinCC flexible Standard	Yes
WinCC flexible Advanced	Yes
WinCC Basic (TIA Portal)	No
WinCC Comfort (TIA Portal)	Yes

WinCC Advanced (TIA Portal)	Yes
WinCC Professional (TIA Portal)	Yes
Configuration tool	WinCC flexible Standard Version 2005 SP1 or higher (to be ordered separately)
2. Configuration kit	WinCC flexible Standard
Version	Version 2005 SP 1
Configuration tool	WinCC flexible
Type	Standard
Languages	
Online languages	
Number of online/runtime languages	16
Project languages	
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Task planner	Yes
Help system	Yes
Number of characters per info text	70
Message system	
Number of alarm classes	32
Number of messages	4000
Bit messages	Yes
Analog messages	Yes
Number of bit messages	4000
Number of analog messages	200
System messages HMI	Yes
System messages PLC	Yes
System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	Yes
Message length (in characters)	80
Lines	1
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
First/last value	Yes
Recipe administration	
Number of recipes	300
Data records per recipe	500
Entries per data record	1000