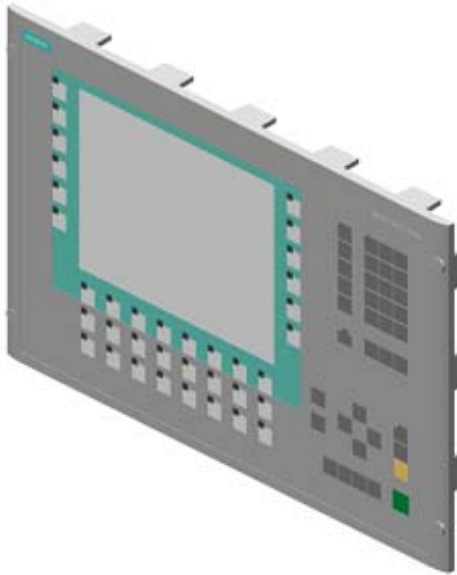


*** SPARE PART*** SIMATIC MP 277 10" KEY MULTIPANEL 10,4"
TFT DISPLAY 6 MB USER MEMORY CONFIG. WINCC FLEXIBLE
2005 STANDARD SP1



General information

Customer-specific configuration	Yes
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Display

Design of display	TFT
Screen diagonal	10.4 in
Number of colors	65 536
Color type	Colors

Resolution (pixels)

• Horizontal image resolution	640 Pixel
• Vertical image resolution	480 Pixel

Backlighting

• MTBF backlighting (at 25 °C)	50 000 h
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Control elements

Control elements	Membrane keyboard
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Keyboard fonts

• Membrane keyboard	Yes
— user-definable label membrane keys	
• Function keys	

— Number of function keys	36
— Number of function keys with LEDs	26
• System keys	Yes
• Numeric/alphabetical input	Yes / Yes
• Multi-key operation	Yes
— Number of multi-key operations	2
Connection type	
• Connection for mouse/keyboard/barcode reader	USB / USB / USB
Installation type/mounting	
Mounting position	vertical
Processor	
Processor type	ARM
Memory	
Type of memory	Flash / RAM
Memory available for user data	6 Mbyte
Main memory	
• Capacity of main memory, max.	64 Mbyte
Time of day	
Clock	
• Type	Hardware clock, battery backup, synchronizable
• retentive	Yes
• synchronizable	Yes
Interfaces	
Interfaces/bus type	1 x RS422, 1 x RS485, 1 x Ethernet (RJ45) (max. 12 Mbit/s)
Number of RS 485 interfaces	1
• Transmission rate, max.	12 Mbit/s
USB port	2 x USB
Multimedia card/SD card slot	1x MultiMediaCard slot
Industrial Ethernet	
• Industrial Ethernet interface	1 x Ethernet (RJ45)
Degree and class of protection	
Front	IP65
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
Certifications	CE, UL
Ambient conditions	
Ambient temperature during operation	

• min.	0 °C
• max.	50 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	80 %
Operating systems	
pre-installed operating system	Windows CE
Configuration	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	
• Configuration tool	WinCC flexible Standard Version 2005 SP1 or higher (to be ordered separately)
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	80
Message system	
• Number of alarm classes	32
• Number of messages	4 000
• Bit messages	Yes
— Number of bit messages	4 000
• Analog messages	Yes
— Number of analog messages	4 000
• System messages HMI	Yes
• System messages PLC	Yes
• System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	Yes
• Lines	1
• Number of characters per message	80

• Number of process values per message	8
• Acknowledgment groups	Yes
• Message indicator	Yes
• First/last value	Yes
Recipe management	
• Number of recipes	300
• Data records per recipe	500
• Entries per data record	1 000
• Recipe memory	64 KB integrated Flash, expandable
Variables	
• Number of variables per device	2 048
• Number of variables per screen	200
• Number of variables	1 000
• Initial values	2 048
• Type Date & Time	2 048
• Limit values	Yes
• Multiplexing	Yes
• Structures	Yes
Images	
• Number of configurable images	500
• Permanent window/default	Yes
• Start screen configurable	Yes
• Image selection by PLC	Yes
• Image number in the PLC	Yes
Image objects	
• Text objects	10,000 text elements
• Number of I/O fields per image	200
• Number of date/time fields	200
• Return	Yes
• Graphics object	Bit maps, icons, vector graphics
— Icons	1 000
Complex image objects	
• Status/control	With SIMATIC S7
• dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
— Number of objects per project	1 000
— Number of curve diagrams per image	10
• Methods	Trend / profile
• Bar graphs	
— Number of bars per chart	10
• Sliders	
— Number of slides per image	10

- Pointer instruments
 - Number of analog indicators per image 10
- Limit value lines Yes
- Number of alphanumeric fields 300
 - alphanumeric fields per image 200
- Number of numerical fields 2 048
 - numerical fields per image 200
- Number of password fields 2 048
- Number of visible switches per project 200
 - visible switches per image 200
 - hidden switches per image 200
- Number of status switches per project 200
 - Number of status switches per image 200
- Number of selector switches per project 200
 - Selector switches per image 200
- Number of decade switches per project 200
 - Decade switches per image 200
- Number of signal lamps per project 200
 - Signal lamps per image 200

Attributes for dynamic objects

- Color change Yes
- X/Y movement Yes
- Hide Yes

Lists

- Number of text lists per project 500
- Number of text lists per image 200
- Number of entries per text list 256
- Number of graphics lists per project 400
- Number of graphic lists per image 200
- Number of entries per graphics list 256

Archiving

- Number of archives per device 20
- Number of measuring points per project 20
- Number of entries per archive 10 000
- Message archive Yes
- Process value archive Yes
- Archiving methods
 - Sequential archive Yes
 - Short-term archive Yes
- Memory location SD and MultiMediaCard
 - Ethernet Yes

<ul style="list-style-type: none"> • Data storage format <ul style="list-style-type: none"> — CSV 	Yes
<ul style="list-style-type: none"> • Online evaluation <ul style="list-style-type: none"> — using trend curves 	Yes
Filters	
<ul style="list-style-type: none"> • cyclic 	Yes
<ul style="list-style-type: none"> • Tolerance 	Yes
<ul style="list-style-type: none"> • Change 	Yes
Security	
<ul style="list-style-type: none"> • Number of user groups 	50
<ul style="list-style-type: none"> • Number of user rights 	32
<ul style="list-style-type: none"> • Password export/import 	Yes
Logging through printer	
<ul style="list-style-type: none"> • Recording/Printing 	Alarms, report (shift report), color print, hardcopy
Transfer (upload/download)	
<ul style="list-style-type: none"> • Transfer of configuration 	MPI/PROFIBUS DP, USB, Ethernet, automatic transfer recognition
Process coupling	
<ul style="list-style-type: none"> • Connection to controller 	S5, S7-200, S7-300/400, TI 505, SINUMERIK, SIMOTION, Allen Bradley (DF1), Allen Bradley (DF485), Mitsubishi (FX), OMRON (LINK/Multilink), Modicon (Modbus) see chapter "System interfaces"
<ul style="list-style-type: none"> • S7-200 	Yes
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — PPI (point-to-point) 	Yes
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — PPI network 	Yes
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — MPI 	Yes
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — PROFIBUS DP 	Yes
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — Ethernet 	Yes
<ul style="list-style-type: none"> • S7-300/400 	Yes
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — MPI 	Yes
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — PROFIBUS DP 	Yes
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — PROFINET 	Yes
<ul style="list-style-type: none"> • S5 	Yes
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — serial 	Yes
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — PROFIBUS DP 	Yes
<ul style="list-style-type: none"> • TI 505 	Yes
<ul style="list-style-type: none"> • Allen Bradley (DF1) 	Yes
<ul style="list-style-type: none"> • Allen Bradley (DF485) 	Yes
<ul style="list-style-type: none"> • Mitsubishi (FX) 	Yes
<ul style="list-style-type: none"> • Mitsubishi (MP4) 	Yes
<ul style="list-style-type: none"> • Telemecanique (Uni-Telway) 	Yes
<ul style="list-style-type: none"> • OMRON (LINK/Multilink) 	Yes

• Modicon (Modbus)	Yes
• GE-Fanuc (SNP)	Yes
Functions	
• TAB sequence	Yes
• Calculating functions	Yes
• Animate	Yes
Service tools/configuration aids	
• Backup/Restore manually	Yes
• Simulation	Yes
• Device switchover	Yes
• Delta transfer	Yes
Expandability/openness	
• Open Platform Program	Yes
Peripherals/Options	
Peripherals	Printer, barcode reader
• SIMATIC HMI MM memory card: Multi Media Card	Yes
• SIMATIC HMI SD memory card: Secure Digital memory card	Yes
• USB memory	Yes
Additional software components loadable	Yes
Dimensions	
Width of the housing front	483 mm
Height of housing front	310 mm
Mounting cutout, width	434 mm
Mounting cutout, height	291 mm
Overall depth	60 mm
Weights	
Weight (without packaging)	4.95 kg
Other	
free hotline	Yes
Warranty period	1 y
last modified:	04/28/2017