



AS OF 2015-01-01 THE PRODUCT IS BLOCKED FOR DELIVERY AND IS NO LONGER AVAILABLE AS A NEW PART. INFORMATION ABOUT SUCCESSOR SEE SIMATIC UPDATE ID: 62977695 FOR FURTHER QUESTIONS PLEASE APPROACH YOUR SIEMENS CONTACT PERSON. SIMATIC MP 277 10" TOUCH MULTI PANEL W. RETENTIVE MEMORY 10,4" TFT DISPLAY 6 MB CONFIGURING MEMORY, CONFIGURABLE WITH WINCC FLEXIBLE 2008 STANDARD SP3 UPDATE 5 WINCC COMFORT V13 HSP

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
Number of greyscales	0
Color type	Colors

Resolution (pixels)

• Horizontal image resolution	640 Pixel
• Vertical image resolution	480 Pixel
• Resolution (WxH in pixel)	640 x 480

Backlighting

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

Control elements	Touch screen
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Keyboard fonts

• System keys	No
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<ul style="list-style-type: none"> Numeric/alphabetical input — hexadecimal keyboard 	Yes / Yes Yes
Touch operation	
<ul style="list-style-type: none"> Design as touch screen 	Yes; analog, resistive
Connection type	
<ul style="list-style-type: none"> Connection for mouse/keyboard/barcode reader 	USB / USB / USB
Installation type/mounting	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	
Type of supply voltage	DC
Processor	
Processor type	ARM
Memory	
Type of memory	Flash / RAM
Memory available for user data	6 Mbyte
Main memory	
<ul style="list-style-type: none"> Capacity of main memory, max. 	128 Mbyte
Time of day	
Clock	
<ul style="list-style-type: none"> Type retentive synchronizable 	Hardware clock, battery backup, synchronizable Yes Yes
Interfaces	
Interfaces/bus type	1 x RS422, 1 x RS485, 1 x Ethernet (RJ45)
Number of RS 485 interfaces	1
USB port	2 x USB
Multimedia Card slot	1x MultiMediaCard slot
Industrial Ethernet	
<ul style="list-style-type: none"> Industrial Ethernet interface 	1 x Ethernet (RJ45)
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	Yes
Protocols (Ethernet)	
<ul style="list-style-type: none"> TCP/IP 	Yes
Further protocols	
<ul style="list-style-type: none"> MODBUS 	Yes

- EtherNet/IP
- other bus systems

No
Yes

Degree and class of protection

Front	IP65, NEMA 4x (when installed)
IP (at the front)	IP65
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

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.	90 %

Operating systems

Operating system	Windows CE
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Configuration

Message indicator	Yes
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)
- Configuration tool

Yes
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 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
 - Number of acknowledgement groups
- Message indicator Yes
- First/last value Yes

Recipe administration

- 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
- Limit values Yes

• Multiplexing	Yes
• Structures	Yes
• Type Date & Time	2 048
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
• Limit value lines	Yes
• Number of bars per chart	10
• Limit value lines	Yes
• alphanumeric fields	300
• alphanumeric fields per image	200
• numerical fields	2 048
• numerical fields per image	200
• Password fields	2 048
• Number of slides per image	10
• Number of analog indicators per image	10
• 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
• Data storage format	
— CSV	Yes
• Online evaluation	
— using trend curves	Yes
Filters	
• cyclic	Yes
• Tolerance	Yes
• Change	Yes
Security	
• Number of user groups	50
• Number of user rights	32
• Password export/import	Yes
Logging through printer	
• Recording/Printing	Alarms, report (shift report), color print, hardcopy
Transfer (upload/download)	
• Transfer of configuration	MPI/PROFIBUS DP, USB, Ethernet, automatic transfer recognition
Process coupling	

- 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"

- S7-1200

Yes

- S7-1500

Yes

- S7-200

Yes

- PPI (point-to-point)

Yes

- PPI network

Yes

- MPI

Yes

- PROFIBUS DP

Yes

- Ethernet

Yes

- S7-300/400

Yes

- MPI

Yes

- PROFIBUS DP

Yes

- PROFINET

Yes

- S5

Yes

- PROFIBUS DP

Yes

- TI 505

Yes

- Allen Bradley (DF1)

Yes

- Allen Bradley (DF485)

Yes

- Mitsubishi (FX)

Yes

- Mitsubishi (MP4)

Yes

- Telemecanique (Uni-Telway)

Yes

- OMRON (LINK/Multilink)

Yes

- Modicon (Modbus)

Yes

- GE-Fanuc (SNP)

Yes

Functions

- TAB sequence

Yes

- Calculating functions

Yes

- Animate

Yes

Service tools/configuration aids

- Clean screen

Yes

- Touch calibration

Yes

- Backup/Restore manually

Yes

- Simulation

Yes

- Device switchover

Yes

- Delta transfer

Yes

Expandability/openness

- Open Platform Program

Yes

Peripherals/Options

Peripherals	Printer, barcode reader
<ul style="list-style-type: none"> • SIMATIC HMI MM memory card: Multi Media Card 	Yes
<ul style="list-style-type: none"> • SIMATIC HMI SD memory card: Secure Digital memory card 	Yes
<ul style="list-style-type: none"> • USB memory 	Yes
Additional software components loadable	Yes

Dimensions	
Width of the housing front	335 mm
Height of housing front	275 mm
Mounting cutout, width	310 mm
Mounting cutout, height	248 mm
Overall depth	61 mm

Weights	
Weight (without packaging)	2.65 kg

Other	
free hotline	Yes
Warranty period	1 y

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