



The new part, as of 01.01.2015, is blocked for delivery. Spare part can continue to be purchased as required, but price may deviate from new part. Further information under SIMATIC current entry ID: 109486162. For questions, the familiar contact persons are available to you. SIMATIC MP 377 12" Touch Multi Panel, Windows CE 5.0 12" color TFT display 12 MB configuration memory configurable from WinCC flexible 2007

General information	
Product type designation	MP377 12" touch
Customer-specific configuration	No
Display	
Design of display	TFT
Screen diagonal	12.1 in
Color display	Yes
Number of colors	65 536
Resolution (pixels)	
• Horizontal image resolution	800 pixel
• Vertical image resolution	600 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Control elements	Touch screen
Keyboard fonts	
• Function keys	
— Number of function keys	0
— Number of function keys with LEDs	0
• System keys	No
— Number of system keys	0
• Numeric keyboard	Yes
• alphanumeric keyboard	Yes
• hexadecimal keyboard	Yes
Touch operation	
• Design as touch screen	Yes; analog, resistive
Connection type	
• Type of connection for mouse/keyboard/barcode reader	USB / USB / USB
Installation type/mounting	
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	
Type of supply voltage	DC
Input current	
Current consumption (rated value)	1.5 A
Power	
Active power input, typ.	36 W
Memory	
Type of memory	Flash / RAM
Memory available for user data	12 288 kbyte

<b>Time of day</b>	
Clock	
<ul style="list-style-type: none"> <li>Type</li> <li>retentive</li> <li>synchronizable</li> </ul>	Hardware clock, battery backup, synchronizable Yes Yes
<b>Interfaces</b>	
Interfaces/bus type	1x RS 422, 1x RS 485, 2x Ethernet (RJ45)
Number of industrial Ethernet interfaces	2
Number of RS 485 interfaces	1
Number of RS 422 interfaces	1
Number of USB interfaces	2; Up to 1 GB respectively
CF card slot	1x CF card slot
Multimedia card/SD card slot	1x Multimedia Card slot, up to 128 MB
With software interfaces	No
<b>Protocols</b>	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	
<ul style="list-style-type: none"> <li>TCP/IP</li> </ul>	Yes
Protocols (terminal link)	
<ul style="list-style-type: none"> <li>Sm@rtServer</li> </ul>	Yes
Further protocols	
<ul style="list-style-type: none"> <li>MODBUS</li> </ul>	Yes
<b>EMC</b>	
Emission of radio interference acc. to EN 55 011	
<ul style="list-style-type: none"> <li>Limit class A, for use in industrial areas</li> </ul>	Yes
<b>Degree and class of protection</b>	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	NEMA 4, NEMA 12 (when installed)
<b>Standards, approvals, certificates</b>	
CE mark	Yes
UL approval	Yes
cULus	Yes
Suitable for safety functions	No
Use in hazardous areas	
<ul style="list-style-type: none"> <li>ATEX Zone 2</li> <li>ATEX Zone 22</li> <li>FM Class I Division 2</li> </ul>	No; certificate no longer available as of 1 October 2020 No; certificate no longer available as of 1 October 2020 Yes
<b>Ambient conditions</b>	
Ambient temperature during operation	
<ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>	0 °C 50 °C
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>	-20 °C 60 °C
Relative humidity	
<ul style="list-style-type: none"> <li>Operation, max.</li> </ul>	90 %
<b>Operating systems</b>	
pre-installed operating system	Windows CE
<b>configuration / header</b>	
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 2007 or higher (to be ordered separately)
• 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

## Languages

### Online languages

• Number of online/runtime languages	16
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### Project languages

• Languages per project	32
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## Functionality under WinCC (TIA Portal)

Libraries	Yes
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Task planner	Yes
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Help system	Yes
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• Number of characters per info text	70
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### 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
• Telegram message procedure Alarm S	Yes
• System messages HMI	Yes
• System messages PLC	Yes
• System event, more (SIMATIC S7, SINUMERIK, SIMOTION, ...)	Yes
• Lines	1
• Number of characters per message	80
• Number of process values per message	8
• Message indicator	Yes
• First/last value	Yes

### Recipe management

• Number of recipes	500
• Data records per recipe	1 000
• Entries per data record	1 000
• Recipe memory	128 KB integrated Flash, expandable

### Variables

• Number of variables per device	4 096; Configuration with WinCC flexible 2008 and higher
• Number of variables per screen	400
• Number of variables	2 000
• 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	30 000 text elements
• Number of I/O fields per image	400
• Number of date/time fields	400

<ul style="list-style-type: none"> <li>• Return</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Graphics object <ul style="list-style-type: none"> <li>— Icons</li> </ul> </li> </ul>	Bit maps, icons, vector graphics 2 000
<b>Complex image objects</b>	
<ul style="list-style-type: none"> <li>• Status/control</li> </ul>	With SIMATIC S7
<ul style="list-style-type: none"> <li>• dynamic objects <ul style="list-style-type: none"> <li>— Number of objects per project</li> <li>— Number of curve diagrams per image</li> </ul> </li> </ul>	Diagrams, bar graphs, sliders, analog display, invisible buttons 2 000 20
<ul style="list-style-type: none"> <li>• Methods</li> </ul>	Trend / profile
<ul style="list-style-type: none"> <li>• Bar graphs <ul style="list-style-type: none"> <li>— Number of bars per chart</li> </ul> </li> </ul>	20
<ul style="list-style-type: none"> <li>• Sliders <ul style="list-style-type: none"> <li>— Number of slides per image</li> </ul> </li> </ul>	20
<ul style="list-style-type: none"> <li>• Pointer instruments <ul style="list-style-type: none"> <li>— Number of analog indicators per image</li> </ul> </li> </ul>	20
<ul style="list-style-type: none"> <li>• Limit value lines</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Number of alphanumerical fields <ul style="list-style-type: none"> <li>— alphanumeric fields per image</li> </ul> </li> </ul>	300 400
<ul style="list-style-type: none"> <li>• Number of numerical fields <ul style="list-style-type: none"> <li>— numerical fields per image</li> </ul> </li> </ul>	2 048 400
<ul style="list-style-type: none"> <li>• Number of password fields</li> </ul>	2 048
<ul style="list-style-type: none"> <li>• Number of visible switches per project <ul style="list-style-type: none"> <li>— visible switches per image</li> <li>— hidden switches per image</li> </ul> </li> </ul>	400 400 400
<ul style="list-style-type: none"> <li>• Number of status switches per project <ul style="list-style-type: none"> <li>— Number of status switches per image</li> </ul> </li> </ul>	400 400
<ul style="list-style-type: none"> <li>• Number of selector switches per project <ul style="list-style-type: none"> <li>— Selector switches per image</li> </ul> </li> </ul>	400 400
<ul style="list-style-type: none"> <li>• Number of signal lamps per project <ul style="list-style-type: none"> <li>— Signal lamps per image</li> </ul> </li> </ul>	400 400
<b>Attributes for dynamic objects</b>	
<ul style="list-style-type: none"> <li>• Color change</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• X/Y movement</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Hide</li> </ul>	Yes
<b>Lists</b>	
<ul style="list-style-type: none"> <li>• Number of text lists per project</li> </ul>	500
<ul style="list-style-type: none"> <li>• Number of text lists per image</li> </ul>	400
<ul style="list-style-type: none"> <li>• Number of entries per text list</li> </ul>	256
<ul style="list-style-type: none"> <li>• Number of graphics lists per project</li> </ul>	500
<ul style="list-style-type: none"> <li>• Number of graphic lists per image</li> </ul>	400
<ul style="list-style-type: none"> <li>• Number of entries per graphics list</li> </ul>	256
<b>Archiving</b>	
<ul style="list-style-type: none"> <li>• Number of archives per device</li> </ul>	50
<ul style="list-style-type: none"> <li>• Number of measuring points per project</li> </ul>	50
<ul style="list-style-type: none"> <li>• Number of entries per archive</li> </ul>	50 000
<ul style="list-style-type: none"> <li>• Message archive</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Process value archive</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Archiving methods <ul style="list-style-type: none"> <li>— Sequential archive</li> <li>— Short-term archive</li> </ul> </li> </ul>	Sequential log, circular log, alarm log, process value archive Yes Yes
<ul style="list-style-type: none"> <li>• Memory location <ul style="list-style-type: none"> <li>— CF card</li> <li>— Ethernet</li> </ul> </li> </ul>	CF card, SD/MMC card, Ethernet, USB memory stick Yes Yes
<ul style="list-style-type: none"> <li>• Data storage format <ul style="list-style-type: none"> <li>— CSV</li> </ul> </li> </ul>	CSV file, readable, e.g. with MS Excel, MS Access Yes
<ul style="list-style-type: none"> <li>• external evaluation</li> </ul>	readable, e.g. with MS Excel, MS Access, etc.
<ul style="list-style-type: none"> <li>• Size of archive</li> </ul>	depending on free memory on ext. card/stick or on free hard disk space via network drive
<ul style="list-style-type: none"> <li>• Online evaluation <ul style="list-style-type: none"> <li>— using trend curves</li> </ul> </li> </ul>	via trends Yes
<b>Filters</b>	

• cyclic	Yes
• Tolerance	Yes
• Change	Yes
<b>Security</b>	
• Number of user groups	50
• Number of user rights	32
• Password export/import	Yes
<b>Data carrier support</b>	
• CF card	Yes
• Hard disk	Yes
<b>Logging through printer</b>	
• Recording/Printing	Alarms, report (shift report), color print, hardcopy
<b>Transfer (upload/download)</b>	
• Transfer of configuration	MPI/PROFIBUS DP, serial, USB, Ethernet, by means of external storage medium, automatic transfer recognition
<b>Process coupling</b>	
• Connection to controller	S5, S7-200, S7-300/400, TI 505, Win AC, PC (TCP/IP), SINUMERIK, SIMOTION, Allen Bradley (DF1), Allen Bradley (DF485), Mitsubishi (FX), OMRON (LINK/Multilink), Modicon (Modbus), further non-Siemens drivers, 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
• 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
<b>Functions</b>	
• TAB sequence	Yes
• Calculating functions	Yes
• Animate	Yes
<b>Service tools/configuration aids</b>	
• Clean screen	Yes
• Touch calibration	Yes
• Backup/Restore manually	Yes
• Simulation	Yes
• Device switchover	Yes
• Delta transfer	Yes
<b>Expandability/openness</b>	
• Open Platform Program	Yes
<b>Peripherals/Options</b>	
Peripherals	Printer, card reader, 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
<b>Dimensions</b>	

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	72 mm

**Weights**

Weight (without packaging)	3.8 kg
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**Classifications**

	Version	Classification
eClass	14	27-33-02-01
eClass	12	27-33-02-01
eClass	9.1	27-33-02-01
eClass	9	27-33-02-01
eClass	8	27-24-23-02
eClass	7.1	27-24-23-02
eClass	6	27-24-23-02
ETIM	10	EC001412
ETIM	9	EC001412
ETIM	8	EC001412
ETIM	7	EC001412
IDEA	4	6607
UNSPSC	15	43-21-15-06

**Approvals / Certificates**

General Product Approval	EMV
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[Manufacturer Declaration](#)



For use in hazardous locations	Radio Equipment Type Approval Certificate	Maritime application
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[FM](#)



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[Miscellaneous](#)



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