

SIMATIC MP 377 12" KEY MULTIPANEL, WINDOWS CE 5.0 12" COLOR-TFT-DISPLAY 12 MB USER MEMORY CONFIGURABLE FROM WINCC FLEXIBLE 2007 NEW KEY ALUMINIUM FRONT WITH UNIFORM CLAMPS \*\*\*\*\* THIS PRODUCT IS NO LONGER AVAILABLE FROM OCT. 1ST, 2014. INFORMATION ABOUT SUCCESSOR SEE SIMATIC UPDATE ID: 62977695 FOR FURTHER QUESTIONS PLEASE APPROACH YOUR SIEMENS CONTACT PERSON.



Display	
Design of display	TFT
Screen diagonal	12.1 in
Size	12.1" (246 mm x 184.5 mm)
Display type	TFT, 65536 colors
Number of grayscales	0
Color type	Colors
Resolution (pixels)	
• Horizontal image resolution	800
• Vertical image resolution	600
• Resolution (WxH in pixel)	800 x 600
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Control elements	Membrane keyboard
Operating options	Keys
Function keys, programmable	36 function keys, 36 with LEDs
Connection for mouse/keyboard/barcode reader	USB / USB / USB
Keyboard	

• Keys with LED	Yes
• Number of function keys with LEDs	36
— Multi-key operation	Yes
— Number of multi-key operations	2
• System keys	Yes
• Numeric/alphabetical input	Yes / Yes
— hexadecimal keyboard	Yes
• Multi-key operation	Yes
<b>Touch operation</b>	
• Design as touch screen	No
<b>Supply voltage</b>	
Type of supply voltage	DC
<b>Input current</b>	
Rated current	1.5 A
Inrush current A <sup>2</sup> s	4 A <sup>2</sup> s
<b>Power</b>	
Power	36 W
<b>Memory</b>	
Usable memory for user data	12 288 kbyte
<b>Time of day</b>	
<b>Clock</b>	
• Type	Hardware clock, battery backup, synchronizable
• Hardware clock (real-time clock)	Yes
• Battery-backed	Yes
• Synchronizable	Yes
<b>Interfaces</b>	
Interfaces	1 x RS422, 1 x RS485, 2 x Ethernet (RJ45)
Number of RS 485 interfaces	1
USB port	2 x USB
CF card slot	1 x CF card slot
Multi Media Card slot	1x Multimedia Card slot, up to 128 MB
<b>Industrial Ethernet</b>	
• Industrial Ethernet interface	2 x Ethernet (RJ45)
<b>Protocols</b>	
PROFINET IO	Yes
Supports protocol for PROFI-safe	No
PROFIBUS	Yes
MPI	Yes
<b>Protocols (Ethernet)</b>	
• TCP/IP	Yes
<b>Protocols (terminal link)</b>	

• Sm@rtService	Yes
<b>Further protocols</b>	
• other bus systems	Yes
<b>EMC</b>	
Emission of radio interference acc. to EN 55 011	
• Limit class A, for use in industrial areas	Yes
<b>Degree and class of protection</b>	
Front	IP65, NEMA 4, NEMA 12 (when installed)
IP (at the front)	IP65
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
Certifications	CE, cULus, C-TICK, NEMA 4, NEMA 12
cULus	Yes
EMC	The product is designed for use in industrial environments. When used in residential areas, the emission of radio interference according to limit class B of EN 55011 must be ensured. For further information please refer to the user documentation.
<b>Ambient conditions</b>	
maximum permissible angle of inclination without external ventilation	+/- 35 °
<b>Storage/transport temperature</b>	
• Transport, storage	-20 °C to +60 °C
<b>Relative humidity</b>	
• Operation, max.	90 %
<b>Operating systems</b>	
Operating system	Windows CE
<b>Configuration</b>	
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
<b>Configuration software</b>	
• 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 2007 or higher (to be ordered separately)
• 2nd configuration kit	WinCC flexible Standard
— Version	Version 2007
— Configuration tool	WinCC flexible
— Type	Standard

## Languages

### Online languages

• Number of online/runtime languages	16
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### 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
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• Number of messages	4 000
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• Bit messages	Yes
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• Analog messages	Yes
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• Number of bit messages	4 000
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• Number of analog messages	200
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• Telegram message procedure Alarm S	Yes
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• System messages HMI	Yes
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• System messages PLC	Yes
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• System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	Yes
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• Message length (in characters)	80
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• Lines	1
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• Number of process values per message	8
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• Message indicator	Yes
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• First/last value	Yes
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### Recipe administration

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

• Number of variables per device	4 096; Configuration with WinCC flexible 2008 and higher
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• Number of variables per screen	400
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• Number of variables	2 000
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• Initial values	2 048
• Limit values	Yes
• Multiplexing	Yes
• Structs	Yes
• Type Date & Time	2 048
<b>Images</b>	
• Number of configurable images	500
• Permanent window/default	Yes
• Start screen configurable	Yes
• Image selection by PLC	Yes
• Image number in the PLC	Yes
<b>Image objects</b>	
• Text objects	30000 text elements
• Fields per image	400
• Date/time fields	400
• Return	Yes
• Graphics object	Bit maps, icons, vector graphics
— Icons	2 000
<b>Complex image objects</b>	
• Status/control	With SIMATIC S7
• dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
— Number of objects per project	2 000
— Number per image	20
• Methods	Trend / profile
• Limit value lines	Yes
• Number of bars per chart	20
• Limit value lines	Yes
• alphanumeric fields	300
• alphanumeric fields per image	400
• numerical fields	2 048
• numerical fields per image	400
• Password errors	2 048
• Number of slides per image	20
• Number of analog indicators per image	20
• Number of visible switches per project	400
• visible switches per image	400
• hidden switches per image	400
• Number of status switches per project	400
• Button status switches per image	400
• Number of selector switches per project	400
• Selector switches per image	400
• Number of signal lamps per project	400
• Signal lamps per image	400

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	400
• Number of entries per text list	256
• Number of graphics lists per project	500
• Number of graphic lists per image	400
• Number of entries per graphics list	256
Archiving	
• Number of archives per device	50
• Number of measuring points per project	50
• Number of entries per archive	50 000
• Message archive	Yes
• Process value archive	Yes
• Archiving methods	Sequence archive, circular log, alarm log, process value archive
— Sequential archive	Yes
— Short-term archive	Yes
• Memory location	CF card, SD/MMC card, Ethernet, USB memory stick
— CF card	Yes
— Ethernet	Yes
• Data storage format	CSV file, readable, e.g. with MS Excel, MS Access
— CSV	Yes
• external evaluation	Readable, e.g. with MS Excel, MS Access, etc.
• Size of archive	depending on free memory on ext. card/stick or on free hard disk space via network drive
• Online evaluation	via trends
— via trends	Yes
Filters	
• cyclic	Yes
• Tolerance	Yes
• Change	Yes
Security	
• Number of user groups	50
• Number of user rights	32
• Password export/import	Yes
Data carrier support	
• CF card	Yes
• Hard disk	Yes
Logging through printer	
• Recording/Printing	Alarms, report (shift report), color print, hardcopy
Transfer (upload/download)	

<ul style="list-style-type: none"> <li>• Transfer of configuration</li> </ul>	MPI/PROFIBUS DP, serial, USB, Ethernet, by means of external storage medium, automatic transfer recognition
<b>Process coupling</b>	
<ul style="list-style-type: none"> <li>• Connection to controller</li> </ul>	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"
<ul style="list-style-type: none"> <li>• S7-1200</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• S7-1500</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• S7-200</li> </ul>	Yes
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— PPI (point-to-point)</li> </ul> </li> </ul>	Yes
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— PPI network</li> </ul> </li> </ul>	Yes
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— MPI</li> </ul> </li> </ul>	Yes
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— PROFIBUS DP</li> </ul> </li> </ul>	Yes
<ul style="list-style-type: none"> <li>• S7-300/400</li> </ul>	Yes
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— MPI</li> </ul> </li> </ul>	Yes
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— PROFIBUS DP</li> </ul> </li> </ul>	Yes
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— PROFINET</li> </ul> </li> </ul>	Yes
<ul style="list-style-type: none"> <li>• S5</li> </ul>	Yes
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— PROFIBUS DP</li> </ul> </li> </ul>	Yes
<ul style="list-style-type: none"> <li>• TI 505</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Allen Bradley (DF1)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Allen Bradley (DF485)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Mitsubishi (FX)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Mitsubishi (MP4)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Telemecanique (Uni-Telway)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• OMRON (LINK/Multilink)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Modicon (Modbus)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• GE-Fanuc (SNP)</li> </ul>	Yes
<b>Functions</b>	
<ul style="list-style-type: none"> <li>• Key repeat</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• TAB sequence</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Calculating functions</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Animate</li> </ul>	Yes
<b>Service tools/configuration aids</b>	
<ul style="list-style-type: none"> <li>• Backup/restore</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Simulation</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Device switchover</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Delta transfer</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Monitoring function for battery and memory</li> </ul>	Yes
<b>Expandability/openness</b>	
<ul style="list-style-type: none"> <li>• Open Platform Program</li> </ul>	Yes
<b>I/O / Options</b>	

I/O devices	Printer, card reader, barcode reader
• MultiMediaCard	Yes
• SD 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/device depth (W x H x T)	450 mm x 290 mm / 59 mm device depth

### Weights

Weight (without packaging)	5.5 kg
<b>last modified:</b>	11.11.2014