

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
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	
• System keys	No
• Numeric keyboard	Yes

• alphanumeric keyboard	Yes
• hexadecimal keyboard	Yes
<b>Touch operation</b>	
• Design as touch screen	Yes; analog, resistive
<b>Connection type</b>	
• Type of connection for mouse/keyboard/barcode reader	USB / USB / USB
<b>Installation type/mounting</b>	
maximum permissible angle of inclination without external ventilation	35°
<b>Supply voltage</b>	
Type of supply voltage	DC
<b>Input current</b>	
Current consumption (rated value)	1.5 A
<b>Power</b>	
Active power input, typ.	36 W
<b>Memory</b>	
Type of memory	Flash / RAM
Memory available for user data	12 288 kbyte
<b>Time of day</b>	
<b>Clock</b>	
• Type	Hardware clock, battery backup, synchronizable
• retentive	Yes
• synchronizable	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
<b>Protocols</b>	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	Yes
MPI	Yes
<b>Protocols (Ethernet)</b>	
• TCP/IP	Yes
<b>Protocols (terminal link)</b>	

• Sm@rtServer	Yes
<b>Further protocols</b>	
• EtherNet/IP	Yes
• MODBUS	Yes
• 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>	
IP (at the front)	IP65
NEMA (front)	NEMA 4, NEMA 12 (when installed)
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
Certifications	CE, FM Class I Div. 2, cULus, EX-Zone 22, C-TICK, NEMA 4, NEMA 12
cULus	Yes
Suitable for safety functions	No
<b>Use in hazardous areas</b>	
• ATEX Zone 22	Yes
• FM Class I Division 2	Yes
<b>Ambient conditions</b>	
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 %
<b>Operating systems</b>	
pre-installed operating system	Windows CE
<b>Configuration</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
<b>Configuration software</b>	
• 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 messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	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	30000 text elements
• Number of I/O fields per image	400
• Number of date/time fields	400
• Return	Yes
• Graphics object	Bit maps, icons, vector graphics
— Icons	2 000
Complex image objects	
• Status/control	With SIMATIC S7
• dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
— Number of objects per project	2 000
— Number of curve diagrams per image	20
• Methods	Trend / profile
• Bar graphs	
— Number of bars per chart	20
• Sliders	
— Number of slides per image	20
• Pointer instruments	
— Number of analog indicators per image	20
• Limit value lines	Yes
• Number of alphanumeric fields	300
— alphanumeric fields per image	400
• Number of numerical fields	2 048
— numerical fields per image	400
• Number of password fields	2 048
• Number of visible switches per project	400

— visible switches per image	400
— hidden switches per image	400
• Number of status switches per project	400
— Number of 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
<b>Attributes for dynamic objects</b>	
• Color change	Yes
• X/Y movement	Yes
• Hide	Yes
<b>Lists</b>	
• 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
<b>Archiving</b>	
• 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	Sequential log, 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
— using trend curves	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
<b>Weights</b>	
Weight (without packaging)	3.8 kg
<b>last modified:</b>	08/14/2019