



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
Time of day	
Clock	
<ul style="list-style-type: none"> Type retentive synchronizable 	Hardware clock, battery backup, synchronizable Yes Yes
Interfaces	
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
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	
<ul style="list-style-type: none"> TCP/IP 	Yes
Protocols (terminal link)	
<ul style="list-style-type: none"> Sm@rtServer 	Yes
Further protocols	
<ul style="list-style-type: none"> MODBUS other bus systems 	Yes Yes
EMC	
Emission of radio interference acc. to EN 55 011	
<ul style="list-style-type: none"> Limit class A, for use in industrial areas 	Yes
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	NEMA 4, NEMA 12 (when installed)
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes
Suitable for safety functions	No
Use in hazardous areas	
<ul style="list-style-type: none"> ATEX Zone 2 ATEX Zone 22 FM Class I Division 2 	No; certificate no longer available as of 1 October 2020 No; certificate no longer available as of 1 October 2020 Yes
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> min. max. 	0 °C 50 °C
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> min. max. 	-20 °C 60 °C
Relative humidity	
<ul style="list-style-type: none"> Operation, max. 	90 %
Operating systems	
pre-installed operating system	Windows CE
configuration / header	
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	
<ul style="list-style-type: none"> • Configuration tool 	WinCC flexible Standard Version 2007 or higher (to be ordered separately)
<ul style="list-style-type: none"> • STEP 7 Basic (TIA Portal) 	No
<ul style="list-style-type: none"> • STEP 7 Professional (TIA Portal) 	No
<ul style="list-style-type: none"> • WinCC flexible Compact 	No
<ul style="list-style-type: none"> • WinCC flexible Standard 	Yes
<ul style="list-style-type: none"> • WinCC flexible Advanced 	Yes
<ul style="list-style-type: none"> • WinCC Basic (TIA Portal) 	No
<ul style="list-style-type: none"> • WinCC Comfort (TIA Portal) 	Yes
<ul style="list-style-type: none"> • WinCC Advanced (TIA Portal) 	Yes
<ul style="list-style-type: none"> • WinCC Professional (TIA Portal) 	Yes
Languages	
Online languages	
<ul style="list-style-type: none"> • Number of online/runtime languages 	16
Project languages	
<ul style="list-style-type: none"> • Languages per project 	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Task planner	Yes
Help system	Yes
<ul style="list-style-type: none"> • Number of characters per info text 	70
Message system	
<ul style="list-style-type: none"> • Number of alarm classes 	32
<ul style="list-style-type: none"> • Number of messages 	4 000
<ul style="list-style-type: none"> • Bit messages 	Yes
<ul style="list-style-type: none"> — Number of bit messages 	4 000
<ul style="list-style-type: none"> • Analog messages 	Yes
<ul style="list-style-type: none"> — Number of analog messages 	200
<ul style="list-style-type: none"> • Telegram message procedure Alarm S 	Yes
<ul style="list-style-type: none"> • System messages HMI 	Yes
<ul style="list-style-type: none"> • System messages PLC 	Yes
<ul style="list-style-type: none"> • System event, more (SIMATIC S7, SINUMERIK, SIMOTION, ...) 	Yes
<ul style="list-style-type: none"> • Lines 	1
<ul style="list-style-type: none"> • Number of characters per message 	80
<ul style="list-style-type: none"> • Number of process values per message 	8
<ul style="list-style-type: none"> • Message indicator 	Yes
<ul style="list-style-type: none"> • First/last value 	Yes
Recipe management	
<ul style="list-style-type: none"> • Number of recipes 	500
<ul style="list-style-type: none"> • Data records per recipe 	1 000
<ul style="list-style-type: none"> • Entries per data record 	1 000
<ul style="list-style-type: none"> • Recipe memory 	128 KB integrated Flash, expandable
Variables	
<ul style="list-style-type: none"> • Number of variables per device 	4 096; Configuration with WinCC flexible 2008 and higher
<ul style="list-style-type: none"> • Number of variables per screen 	400
<ul style="list-style-type: none"> • Number of variables 	2 000
<ul style="list-style-type: none"> • Initial values 	2 048
<ul style="list-style-type: none"> • Type Date & Time 	2 048
<ul style="list-style-type: none"> • Limit values 	Yes
<ul style="list-style-type: none"> • Multiplexing 	Yes
<ul style="list-style-type: none"> • Structures 	Yes
Images	
<ul style="list-style-type: none"> • Number of configurable images 	500
<ul style="list-style-type: none"> • Permanent window/default 	Yes
<ul style="list-style-type: none"> • 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
• 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
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	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

- Open Platform Program

Yes

Peripherals/Options

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

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	72 mm

Weights

Weight (without packaging)	3.8 kg
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last modified:

10/7/2021 