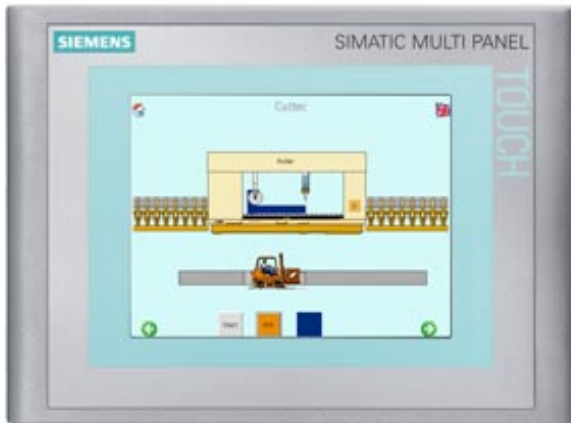


The new part, as of 01.01.2015, is blocked for delivery. Spare part can continue to be purchased as required, but price may deviate from new part. Further information under SIMATIC current entry ID: 109486162. For questions, the familiar contact persons are available to you. SIMATIC MP 177 6" Touch Multi Panel with retentive memory 5.7" TFT display 2 MB configuration memory, configurable with WinCC flexible 2008 Compact or higher



General information	
Product type designation	MP177
Customer-specific configuration	Yes
Display	
Design of display	TFT
Screen diagonal	5.7 in
Color display	Yes
Number of colors	65 536
Resolution (pixels)	
• Horizontal image resolution	320 Pixel
• Vertical image resolution	240 Pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Control elements	Touch screen
Keyboard fonts	
• System keys	No
• Numeric keyboard	Yes; Onscreen keyboard

• alphanumeric keyboard	Yes; Onscreen keyboard
• hexadecimal keyboard	Yes; Onscreen keyboard
<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>	
Mounting position	vertical
<b>Supply voltage</b>	
Type of supply voltage	DC
<b>Processor</b>	
Processor type	RISC 32 bit, 520 MHz
<b>Memory</b>	
Type of memory	Flash / RAM
Memory available for user data	2 Mbyte
Capacity of main memory, max.	128 Mbyte
<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, 1x Ethernet (RJ45) (max. 12 Mbit/s)
Number of industrial Ethernet interfaces	1
Number of RS 485 interfaces	1; together with RS 422
Number of RS 422 interfaces	1; together with RS 485
Number of USB interfaces	1; Up to 1 GB
Multimedia card/SD card slot	combined, from E-status 016 in connection with WinCC flexible 2008 SP1, MMC max. 128 MB / SD max. 512 MB
With software interfaces	No
<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

Further protocols	
• EtherNet/IP	Yes
• MODBUS	Yes
• other bus systems	Yes

EMC	
Emission of radio interference acc. to EN 55 011	
• Limit class A, for use in industrial areas	Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas.

Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	NEMA 4, NEMA 4x, NEMA 12 (when installed)

Standards, approvals, certificates	
cULus	Yes
Suitable for safety functions	No

Use in hazardous areas	
• ATEX Zone 2	No
• ATEX Zone 22	No
• FM Class I Division 2	Yes

Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (Class NK)	No
• Polski Rejestr Statkow (PRS)	No

Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	70 °C
Relative humidity	
• Operation, max.	90 %

Operating systems	
pre-installed operating system	Windows CE (Version 5)

Configuration	
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 Compact Version 2008 SP1 or higher (to be ordered separately)
• STEP 7 Basic (TIA Portal)	No
• STEP 7 Professional (TIA Portal)	No
• WinCC flexible Compact	Yes
• 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

<b>Languages</b>	
<b>Online languages</b>	
• Number of online/runtime languages	5
<b>Project languages</b>	
• Languages per project	32

<b>Functionality under WinCC (TIA Portal)</b>	
Libraries	Yes
Task planner	Yes
Help system	Yes
• Number of characters per info text	70
<b>Message system</b>	
• Number of alarm classes	32
• Number of messages	2 000
• Bit messages	Yes
— Number of bit messages	2 000
• Analog messages	Yes
— Number of analog messages	2 000
• 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

<ul style="list-style-type: none"> <li>• Acknowledgment groups <ul style="list-style-type: none"> <li>— Number of acknowledgement groups</li> </ul> </li> <li>• Message indicator</li> <li>• First/last value</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p>
<b>Recipe management</b>	
<ul style="list-style-type: none"> <li>• Number of recipes</li> <li>• Data records per recipe</li> <li>• Entries per data record</li> <li>• Recipe memory</li> </ul>	<p>100</p> <p>200</p> <p>200</p> <p>32 KB integrated Flash, expandable</p>
<b>Variables</b>	
<ul style="list-style-type: none"> <li>• Number of variables per device</li> <li>• Number of variables per screen</li> <li>• Number of variables</li> <li>• Type Date &amp; Time</li> <li>• Limit values</li> <li>• Multiplexing</li> <li>• Structures</li> </ul>	<p>1 000</p> <p>50</p> <p>1 000</p> <p>1 000</p> <p>Yes</p> <p>Yes</p> <p>No</p>
<b>Images</b>	
<ul style="list-style-type: none"> <li>• Number of configurable images</li> <li>• Permanent window/default</li> <li>• Start screen configurable</li> <li>• Image selection by PLC</li> <li>• Image number in the PLC</li> </ul>	<p>500</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<b>Image objects</b>	
<ul style="list-style-type: none"> <li>• Text objects</li> <li>• Number of I/O fields per image</li> <li>• Number of date/time fields</li> <li>• Return</li> <li>• Graphics object <ul style="list-style-type: none"> <li>— Icons</li> </ul> </li> </ul>	<p>2,500 text elements</p> <p>50</p> <p>30</p> <p>Yes</p> <p>Bit maps, icons, vector graphics</p> <p>500</p>
<b>Complex image objects</b>	
<ul style="list-style-type: none"> <li>• Status/control</li> <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> <li>• Methods</li> <li>• Bar graphs <ul style="list-style-type: none"> <li>— Number of bars per chart</li> </ul> </li> <li>• Sliders <ul style="list-style-type: none"> <li>— Number of slides per image</li> </ul> </li> <li>• Pointer instruments</li> </ul>	<p>With SIMATIC S7</p> <p>Diagrams, bar graphs, sliders, analog display, invisible buttons</p> <p>500</p> <p>5</p> <p>Trend / profile</p> <p>5</p> <p>5</p>

— Number of analog indicators per image	5
• Limit value lines	Yes
• Number of alphanumeric fields	1 000
— alphanumeric fields per image	50
• Number of numerical fields	1 000
— numerical fields per image	50
• Number of password fields	1 000
• Number of visible switches per project	1 000
— visible switches per image	100
— hidden switches per image	100
• Number of status switches per project	1 000
— Number of status switches per image	100
• Number of selector switches per project	200
— Selector switches per image	100
• Number of signal lamps per project	1 000
— Signal lamps per image	100
<b>Attributes for dynamic objects</b>	
• Color change	Yes
• X/Y movement	Yes
• Hide	Yes
• Angle of rotation	No
<b>Lists</b>	
• Number of text lists per project	300
• Number of text lists per image	10
• Number of entries per text list	30
• Number of graphics lists per project	100
• Number of graphic lists per image	10
• Number of entries per graphics list	30
<b>Security</b>	
• Number of user groups	50
• Number of user rights	32
• Password export/import	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, automatic transfer recognition
<b>Process coupling</b>	
• Connection to controller	S5, S7-200, S7-300/400, TI 505, Win AC, 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
— 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
<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
<b>Peripherals/Options</b>	
Peripherals	Printer, barcode reader
SIMATIC HMI MM memory card: Multi Media Card	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; WP gate is not supported.
USB memory	Yes
Additional software components loadable	Yes
<b>Dimensions</b>	

Width of the housing front	212 mm
Height of housing front	156 mm
Mounting cutout, width	198 mm
Mounting cutout, height	142 mm
Overall depth	45 mm

#### Weights

Weight (without packaging)	0.85 kg; max.
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#### Other

free hotline	Yes
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**last modified:** 12/05/2019