

SIMATIC MP 377 19" TOUCH MULTIPANEL,  
WINDOWS CE 5.0 19" COLOR-TFT-DISPLAY 12 MB USER  
MEMORY CONFIGURABLE FROM WINCC FLEXIBLE 2007



Display	
Design of display	TFT
Screen diagonal	19 in
Size	19" (376.3 mm x 301.1 mm)
Display type	TFT, 65536 colors
Color type	Colors
Resolution (pixels)	
Horizontal image resolution	1280
Vertical image resolution	1024
Resolution (WxH in pixel)	1280 x 1024
Backlighting	
MTBF backlighting (at 25 °C)	about 50,000 hours
Control elements	
Control elements	Touch screen
Operating options	Touch
Connection for mouse/keyboard/barcode reader	USB / USB / USB
Keyboard fonts	
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes

<b>Touch operation</b>	
<b>Touch screen</b>	Analog, resistive
<b>Input current</b>	
<b>Rated current</b>	2.5 A
<b>Power</b>	
<b>Power</b>	60 W
<b>Memory</b>	
<b>Type</b>	Flash / RAM
<b>Usable memory for user data</b>	12288 KB usable memory for user data / 12288 KB additional memory for options
<b>Time of day</b>	
<b>Clock</b>	
<b>Type</b>	Hardware clock, battery backup, synchronizable
<b>Hardware clock (real-time clock)</b>	Yes
<b>Battery-backed</b>	Yes
<b>Synchronizable</b>	Yes
<b>Interfaces</b>	
<b>Interfaces</b>	1 x RS422, 1 x RS485, 2 x Ethernet (RJ45)
<b>Number of RS 485 interfaces</b>	1
<b>USB port</b>	2 x USB
<b>CF card slot</b>	1 x CF card slot
<b>Multi Media Card slot</b>	1 x Multi Media Card slot
<b>Industrial Ethernet</b>	
<b>Industrial Ethernet interface</b>	2 x Ethernet (RJ45)
<b>Protocols</b>	
<b>PROFIBUS</b>	Yes
<b>MPI</b>	Yes
<b>Protocols (Ethernet)</b>	
<b>TCP/IP</b>	Yes
<b>Protocols (terminal link)</b>	
<b>Sm@rtService</b>	Yes
<b>EMC</b>	
<b>Emission of radio interference acc. to EN 55 011</b>	
<b>Emission of radio interferences acc. to EN 55 011 (limit class A)</b>	Yes
<b>Degree and class of protection</b>	
<b>Front</b>	IP65, NEMA 4, NEMA 12 (when installed)
<b>IP (at the front)</b>	IP65
<b>NEMA</b>	NEMA 4, NEMA 12

<b>Rear</b>	IP20
<b>IP (rear)</b>	IP20
<b>Standards, approvals, certificates</b>	
<b>Certifications</b>	CE, FM Class I Div. 2, cULus, EX-Zone 22, C-TICK, NEMA 4, NEMA 12
<b>cULus</b>	Yes
<b>FM Class I Div. 2</b>	Yes
<b>Use in hazardous areas</b>	
<b>EX zone 22</b>	Yes
<b>Ambient conditions</b>	
<b>maximum permissible angle of inclination without external ventilation</b>	+/- 35 °
<b>Storage/transport temperature</b>	
<b>Transport, storage</b>	-20 °C to +60 °C
<b>Relative humidity</b>	
<b>max. relative humidity</b>	90 %
<b>Operating systems</b>	
<b>Operating system</b>	Windows CE
<b>Configuration</b>	
<b>Message indicator</b>	Yes
<b>With alarm logging system (incl. buffer and acknowledgment)</b>	Yes
<b>Process value display (output)</b>	Yes
<b>Process value default (input) possible</b>	Yes
<b>Recipe administration</b>	Yes
<b>Configuration software</b>	
<b>STEP 7 Basic (TIA Portal)</b>	No
<b>STEP 7 Professional (TIA Portal)</b>	No
<b>WinCC flexible Compact</b>	No
<b>WinCC flexible Standard</b>	Yes
<b>WinCC flexible Advanced</b>	Yes
<b>WinCC Basic (TIA Portal)</b>	No
<b>WinCC Comfort (TIA Portal)</b>	Yes
<b>WinCC Advanced (TIA Portal)</b>	Yes
<b>WinCC Professional (TIA Portal)</b>	Yes
<b>Configuration tool</b>	WinCC flexible Standard Version 2007 or higher (to be ordered separately)
<b>2nd configuration kit</b>	WinCC flexible Standard
<b>Version</b>	Version 2007
<b>Configuration tool</b>	WinCC flexible

Type	Standard
<b>Languages</b>	
<b>Online languages</b>	
Number of online/runtime languages	16
<b>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	4000
Bit messages	Yes
Analog messages	Yes
Number of bit messages	4000
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
Message length (in characters)	80
Lines	1
Number of process values per message	8
Message indicator	Yes
First/last value	Yes
<b>Recipe administration</b>	
Number of recipes	500
Data records per recipe	1000
Entries per data record	1000
Recipe memory	128 KB integrated Flash, expandable
<b>Variables</b>	
Number of variables per device	4096 ; Configuration with WinCC flexible 2008 and higher
Number of variables per screen	400
Number of variables	2000
Initial values	2048
Limit values	Yes

<b>Multiplexing</b>	Yes
<b>Structs</b>	Yes
<b>Type Date &amp; Time</b>	2048
<b>Images</b>	
<b>Number of configurable images</b>	500
<b>Permanent window/default</b>	Yes
<b>Start screen configurable</b>	Yes
<b>Image selection by PLC</b>	Yes
<b>Image number in the PLC</b>	Yes
<b>Image objects</b>	
<b>Text objects</b>	30000 text elements
<b>Fields per image</b>	400
<b>Date/time fields</b>	400
<b>Return</b>	Yes
<b>Graphics object</b>	Bit maps, icons, vector graphics
<b>Icons</b>	2000
<b>Complex image objects</b>	
<b>Status/control</b>	With SIMATIC S7
<b>dynamic objects</b>	Diagrams, bar graphs, sliders, analog display, invisible buttons
<b>Number of objects per project</b>	2000
<b>Number per image</b>	20
<b>Methods</b>	Trend / profile
<b>Limit value lines</b>	Yes
<b>Number of bars per chart</b>	20
<b>Limit value lines</b>	Yes
<b>alphanumeric fields</b>	300
<b>alphanumeric fields per image</b>	400
<b>numerical fields</b>	2048
<b>numerical fields per image</b>	400
<b>Password errors</b>	2048
<b>Number of slides per image</b>	20
<b>Number of analog indicators per image</b>	20
<b>Number of visible switches per project</b>	400
<b>visible switches per image</b>	400
<b>hidden switches per image</b>	400
<b>Number of status switches per project</b>	400
<b>Button status switches per image</b>	400
<b>Number of selector switches per project</b>	400
<b>Selector switches per image</b>	400

<b>Number of signal lamps per project</b>	400
<b>Signal lamps per image</b>	400
<b>Attributes for dynamic objects</b>	
<b>Color change</b>	Yes
<b>X/Y movement</b>	Yes
<b>Hide</b>	Yes
<b>Lists</b>	
<b>Number of text lists per project</b>	500
<b>Number of text lists per image</b>	400
<b>Number of entries per text list</b>	256
<b>Number of graphics lists per project</b>	500
<b>Number of graphic lists per image</b>	400
<b>Number of entries per graphics list</b>	256
<b>Archiving</b>	
<b>Number of archives per device</b>	50
<b>Number of measuring points per project</b>	50
<b>Number of entries per archive</b>	50000
<b>Message archive</b>	Yes
<b>Process value archive</b>	Yes
<b>Archiving methods</b>	Sequence archive, circular log, alarm log, process value archive
<b>Sequential archive</b>	Yes
<b>Short-term archive</b>	Yes
<b>Memory location</b>	CF card, SD/MMC card, Ethernet, USB memory stick
<b>CF card</b>	Yes
<b>Ethernet</b>	Yes
<b>Data storage format</b>	CSV file, readable, e.g. with MS Excel, MS Access
<b>CSV</b>	Yes
<b>external evaluation</b>	Readable, e.g. with MS Excel, MS Access, etc.
<b>Size of archive</b>	depending on free memory on ext. card/stick or on free hard disk space via network drive
<b>Online evaluation</b>	via trends
<b>Using trend curves</b>	Yes
<b>Filters</b>	
<b>cyclic</b>	Yes
<b>Tolerance</b>	Yes
<b>Change</b>	Yes
<b>Security</b>	
<b>Number of user groups</b>	50
<b>Number of user rights</b>	32

<b>Password export/import</b>	Yes
<b>Data carrier support</b>	
<b>CF card</b>	Yes
<b>Hard disk</b>	Yes
<b>Logging through printer</b>	
<b>Recording/Printing</b>	Alarms, report (shift report), color print, hardcopy
<b>Transfer (upload/download)</b>	
<b>Transfer of configuration</b>	MPI/PROFIBUS DP, serial, USB, Ethernet, by means of external storage medium, automatic transfer recognition
<b>Process coupling</b>	
<b>Connection to controller</b>	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"
<b>S7-1200</b>	Yes
<b>S7-1500</b>	Yes
<b>S7-200</b>	Yes
<b>PPI (point-to-point)</b>	Yes
<b>PPI network</b>	Yes
<b>MPI</b>	Yes
<b>PROFIBUS DP</b>	Yes
<b>S7-300/400</b>	Yes
<b>MPI</b>	Yes
<b>PROFIBUS DP</b>	Yes
<b>PROFINET</b>	Yes
<b>S5</b>	Yes
<b>PROFIBUS DP</b>	Yes
<b>TI 505</b>	Yes
<b>Allen Bradley (DF1)</b>	Yes
<b>Allen Bradley (DF485)</b>	Yes
<b>Mitsubishi (FX)</b>	Yes
<b>Mitsubishi (MP4)</b>	Yes
<b>Telemecanique (Uni-Telway)</b>	Yes
<b>OMRON (LINK/Multilink)</b>	Yes
<b>Modicon (Modbus)</b>	Yes
<b>GE-Fanuc (SNP)</b>	Yes
<b>Functions</b>	
<b>TAB sequence</b>	Yes
<b>Calculating functions</b>	Yes

<b>Animate</b>	Yes
<b>Service tools/configuration aids</b>	
<b>Clean screen</b>	Yes
<b>Touch calibration</b>	Yes
<b>Backup/restore</b>	Yes
<b>Simulation</b>	Yes
<b>Device switchover</b>	Yes
<b>Delta transfer</b>	Yes
<b>Monitoring function for battery and memory</b>	Yes
<b>Expandability/openness</b>	
<b>Open Platform Program</b>	Yes
<b>I/O / Options</b>	
<b>I/O devices</b>	Printer, card reader, barcode reader
<b>MultiMediaCard</b>	Yes
<b>SD card</b>	Yes
<b>USB memory</b>	Yes
<b>Additional software components loadable</b>	Yes
<b>Dimensions</b>	
<b>Front of enclosure (W x H)</b>	483 mm x 400 mm
<b>Mounting cutout/device depth (W x H / D)</b>	449 mm x 379 mm / 75 mm device depth
<b>Weights</b>	
<b>Weight (without packaging)</b>	7.7 kg
Status	Sep 2, 2013