

\*\*\* SPARE PART\*\*\* 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
Color display	Yes
Number of colors	65 536
Resolution (pixels)	
• Horizontal image resolution	1 280 Pixel
• Vertical image resolution	1 024 Pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Control elements	Touch screen
Keyboard fonts	
• 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°
Input current	
Current consumption (rated value)	2.5 A
Power	
Active power input, typ.	60 W
Memory	
Type of memory	Flash / RAM
Memory available for user data	12 288 kbyte
Time of day	
Clock	
• Type	Hardware clock, battery backup, synchronizable

- retentive Yes
- synchronizable Yes

### Interfaces

Interfaces/bus type	1 x RS422, 1 x RS485, 2 x Ethernet (RJ45)
Number of RS 485 interfaces	1
Number of USB interfaces	2; Up to 1 GB respectively
CF card slot	1 x CF card slot
Multimedia card/SD card slot	1x Multimedia Card slot, up to 128 MB
<b>Industrial Ethernet</b>	
• Industrial Ethernet interface	2 x Ethernet (RJ45)

### Protocols

PROFIBUS	Yes
MPI	Yes
<b>Protocols (Ethernet)</b>	
• TCP/IP	Yes
<b>Protocols (terminal link)</b>	
• Sm@rtServer	Yes

### Degree and class of protection

IP (at the front)	IP65
NEMA (front)	NEMA 4, NEMA 12 (when installed)
IP (rear)	IP20

### Standards, approvals, certificates

Certifications	CE, FM Class I Div. 2, cULus, EX-Zone 22, C-TICK, NEMA 4, NEMA 12
cULus	Yes
<b>Use in hazardous areas</b>	
• ATEX Zone 22	Yes
• FM Class I Division 2	Yes

### Ambient conditions

<b>Ambient temperature during storage/transportation</b>	
• min.	-20 °C
• max.	60 °C
<b>Relative humidity</b>	
• Operation, max.	90 %

### Operating systems

pre-installed operating system	Windows CE
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### 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 Standard Version 2007 or higher (to be ordered separately)
<b>Languages</b>	
<b>Online languages</b>	
• Number of online/runtime languages	16
<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	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
<b>Recipe management</b>	
• Number of recipes	500
• Data records per recipe	1 000
• Entries per data record	1 000
• Recipe memory	128 KB integrated Flash, expandable
<b>Variables</b>	
• 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
<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
• 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
<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 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 alphanumerical 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	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
— 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

Data carrier support	
• CF card	Yes
• Hard disk	Yes
Logging through printer	
• Recording/Printing	Alarms, report (shift report), color print, hardcopy
Transfer (upload/download)	
• Transfer of configuration	MPI/PROFIBUS DP, serial, USB, Ethernet, by means of external storage medium, automatic transfer recognition
Process coupling	
• 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"
• S7-200	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
Functions	
• TAB sequence	Yes
• Calculating functions	Yes
• Animate	Yes
Service tools/configuration aids	
• Clean screen	Yes
• Touch calibration	Yes
• Backup/Restore manually	Yes

- Simulation Yes
- Device switchover Yes
- Delta transfer Yes
- Monitoring function for battery and memory Yes

#### Expandability/openness

- 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 483 mm

Height of housing front 400 mm

Overall depth 75 mm

#### Weights

Weight (without packaging) 7.7 kg

**last modified:** 04/23/2018