

SIMATIC MP 377 15" TOUCH MULTIPANEL,  
WINDOWS CE 5.0 15" COLOR-TFT-DISPLAY 12 MB USER  
MEMORY CONFIGURABLE FROM WINCC FLEXIBLE 2007



## General information

### Product function

Customer-specific configuration

No

## Display

Design of display

TFT

Screen diagonal

15 in

Size

15" (304.1 mm x 228.1 mm)

Display type

TFT, 65536 colors

Color type

Colors

### Resolution (pixels)

Horizontal image resolution

1024

Vertical image resolution

768

Resolution (WxH in pixel)

1024 x 768

## Backlighting

MTBF backlighting (at 25 °C)

about 50000 hours

## Control elements

Control elements

Touch screen

Operating options

Touch

Connection for mouse/keyboard/barcode reader

USB / USB / USB

<b>Keyboard fonts</b>	
<b>Keys with LED</b>	No
<b>Numeric/alphabetical input</b>	Yes / Yes
<b>hexadecimal keyboard</b>	Yes
<b>Touch operation</b>	
<b>Touch screen</b>	Analog, resistive
<b>Supply voltage</b>	
<b>Supply voltage</b>	24 V DC
<b>Input current</b>	
<b>Rated current</b>	1.9 A
<b>Power</b>	
<b>Power</b>	45.6 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>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@rtServer</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

Degree and class of protection	
Front	IP65, NEMA 4, NEMA 12 (when installed)
Type of protection	IP20
IP (at the front)	IP65
NEMA	NEMA 4, NEMA 12
Rear	IP20
Standards, approvals, certificates	
Certifications	CE, FM Class I Div. 2, cULus, EX-Zone 22, C-TICK, NEMA 4, NEMA 12
FM Class I Div. 2	Yes
EMC	The product is designed for use in industrial environments. When used in residential areas, the emission of radio interference according to limit class B of EN 55011 must be ensured. For further information please refer to the user documentation.
Suitable for safety functions	No
Use in hazardous areas	
EX zone 22	Yes
Ambient conditions	
maximum permissible angle of inclination without external ventilation	+/- 35 °
Storage/transport temperature	
Transport, storage	-20 °C to +60 °C
Relative humidity	
max. relative humidity	90 %
Operating systems	
Operating system	Windows CE
Configuration	
Message indicator	Yes
With alarm logging system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe administration	Yes
Configuration software	
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

<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
<b>Type</b>	Standard
<b>Languages</b>	
<b>Online languages</b>	
<b>Number of online/runtime languages</b>	16
<b>Languages</b>	
<b>Languages per project</b>	32
<b>Functionality under WinCC flexible</b>	
<b>Libraries</b>	Yes
<b>Task planner</b>	Yes
<b>Help system</b>	Yes
<b>Number of characters per info text</b>	70
<b>With alarm logging system (incl. buffer and acknowledgment)</b>	
<b>Number of alarm classes</b>	32
<b>Number of messages</b>	4000
<b>Bit messages</b>	Yes
<b>Analog messages</b>	Yes
<b>Number of bit messages</b>	4000
<b>Number of analog messages</b>	200
<b>Telegram message procedure Alarm S</b>	Yes
<b>System messages HMI</b>	Yes
<b>System messages PLC</b>	Yes
<b>System messages, other (SIMATIC S7, Sinumerik, Simotion, ...)</b>	Yes
<b>Message length (in characters)</b>	80
<b>Lines</b>	1
<b>Number of process values per message</b>	8
<b>Message indicator</b>	Yes
<b>First/last value</b>	Yes
<b>Recipes</b>	
<b>Number of recipes</b>	500
<b>Data records per recipe</b>	1000
<b>Entries per data record</b>	1000

<b>Recipe memory</b>	128 KB integrated Flash, expandable
<b>Variables</b>	
<b>Number of variables per device</b>	4096 ; Configuration with WinCC flexible 2008 and higher
<b>Number of variables per screen</b>	400
<b>Number of variables</b>	2000
<b>Initial values</b>	2048
<b>Limit values</b>	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

Number of visible switches per project	400
visible switches per image	400
hidden switches per image	400
Number of status switches per project	400
Button 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	50000
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	Using trend curves
Using trend curves	Yes

Filters	
<b>cyclic</b>	Yes
<b>Tolerance</b>	Yes
<b>Change</b>	Yes
Security	
<b>Number of user groups</b>	50
<b>Number of user rights</b>	32
<b>Password export/import</b>	Yes
Data carrier support	
<b>CF card</b>	Yes
<b>Hard disk</b>	Yes
Logging through printer	
<b>Recording/Printing</b>	Alarms, report (shift report), color print, hardcopy
Transfer (upload/download)	
<b>Transfer of configuration</b>	MPI/PROFIBUS DP, serial, USB, Ethernet, by means of external storage medium, automatic transfer recognition
Process coupling	
<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>Multi Media Card</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>	400 mm x 310 mm
<b>Weight</b>	
<b>Weight</b>	4.7 kg
Status	Mar 4, 2013