

# SIEMENS

## Product data sheet

**6AV6644-0AC01-2AX0**

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 50000 hours
Control elements	
Control elements	Touch screen
Operating mode	

Operating options	Touch
Connection for mouse/keyboard/barcode reader	USB / USB / USB
<b>Keyboard fonts</b>	
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
<b>Touch operation</b>	
Touch screen	Analog, resistive
<b>Supply voltage</b>	
Supply voltage	24 V DC
<b>Input current</b>	
Rated current	2.5 A
<b>Power</b>	
Power	60 W
<b>Memory</b>	
Type	Flash / RAM
Usable memory for user data	12288 KB usable memory for user data / 12288 KB additional memory for options
<b>Time of day</b>	
<b>Clock</b>	
Type	Hardware clock, battery backup, synchronizable
<b>Interfaces</b>	
Interfaces	1 x RS422, 1 x RS485, 2 x Ethernet (RJ45)
Number of RS 485 interfaces	1
USB port	2 x USB
CF card slot	1 x CF card slot
Multi Media Card slot	1 x Multi Media Card slot
<b>Industrial Ethernet</b>	
Industrial Ethernet interface	2 x Ethernet (RJ45)
<b>Protocols</b>	
PROFIBUS	Yes
MPI	Yes
<b>Protocols (Ethernet)</b>	
TCP/IP	Yes
<b>Protocols (terminal link)</b>	

Sm@rtServer	Yes
<b>Degree and class of protection</b>	
Front	IP65, NEMA 4, NEMA 12 (when installed)
Type of protection	IP20
IP (at the front)	IP65
NEMA	NEMA 4, NEMA 12
Rear	IP20
<b>Standards, approvals, certificates</b>	
Certifications	CE, FM Class I Div. 2, cULus, EX-Zone 22, C-TICK, NEMA 4, NEMA 12
FM Class I Div. 2	Yes
<b>Use in hazardous areas</b>	
EX zone 22	Yes
<b>Ambient conditions</b>	
maximum permissible angle of inclination without external ventilation	+/- 35 °
<b>Storage/transport temperature</b>	
Transport, storage	-20 °C to +60 °C
<b>Relative humidity</b>	
max. relative humidity	90 %
<b>Operating systems</b>	
Operating system	Windows CE
<b>Configuration</b>	
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
<b>Configuration software</b>	
Configuration tool	WinCC flexible Standard Version 2007 or higher (to be ordered separately)
2nd configuration kit	WinCC flexible Standard
Version	Version 2007

Configuration tool	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 flexible</b>	
Libraries	Yes
Number of Visual Basic Scripts	100
Task planner	Yes
Help system	Yes
Number of characters per info text	70
<b>With alarm logging system (incl. buffer and acknowledgment)</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,..)	Yes
Message length (in characters)	80
Lines	1
Number of process values per message	8
Message indicator	Yes
First/last value	Yes
<b>Recipes</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	2048
Number of variables per screen	400
Number of variables	2000
Initial values	2048
Limit values	Yes
Multiplexing	Yes
Structs	Yes
Type Date & Time	2048
<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
Fields per image	400
Date/time fields	400
Return	Yes
Graphics object	Bit maps, icons, vector graphics
Icons	2000
<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	2000
Number per image	20
Methods	Trend / profile
Limit value lines	Yes
Number of bars per chart	20
Limit value lines	Yes
alphanumeric fields	300

alphanumeric fields per image	400
numerical fields	2048
numerical fields per image	400
Password errors	2048
Number of slides per image	20
Number of analog indicators per image	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
<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
<b>Data carrier support</b>	
CF card	Yes
Hard disk	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, by means of external storage medium, automatic transfer recognition
<b>Process coupling</b>	
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
<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	Yes
Simulation	Yes
Device switchover	Yes
Delta transfer	Yes
Monitoring function for battery and memory	Yes
<b>Expandability/openness</b>	



Open Platform Program	Yes
<b>I/O / Options</b>	
I/O devices	Printer, card reader, barcode reader
Multi Media Card	Yes
SD card	Yes
USB memory	Yes
Additional software components loadable	Yes
<b>Dimensions</b>	
Front of enclosure (W x H)	483 mm x 400 mm
<b>Weight</b>	
Weight	7.7 kg
Status	Apr 9, 2012