SIEMENS

Product data sheet 6AV6644-0AC01-2AX1



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 options	Touch
Connection for mouse/keyboard/barcode reader	USB / USB / USB
Keyboard fonts	
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes

© Copyright Siemens AG 2013

Touch operation	
Touch screen	Analog, resistive
Supply voltage	
Supply voltage	24 V DC
Input current	
Rated current	2.5 A
Power	
Power	60 W
Memory	
Type	Flash / RAM
Usable memory for user data	12288 KB usable memory for user data / 12288 KB additional memory for options
Time of day	
Clock	
Type	Hardware clock, battery backup, synchronizable
Interfaces	
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
Industrial Ethernet	
Industrial Ethernet interface	2 x Ethernet (RJ45)
Protocols	
PROFIBUS	Yes
MPI	Yes
Protocols (Ethernet)	
TCP/IP	Yes
Protocols (terminal link)	
Sm@rtServer	Yes
EMC	
Emission of radio interference acc. to EN 55 011	
Emission of radio interferences acc. to EN 55 011 (limit class A)	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

© Copyright Siemens AG 2013

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
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
WinCC Advanced (TIA Portal)	Yes
WinCC Professional (TIA Portal)	Yes
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
Languages	

© Copyright Siemens AG 2013

Online languages	
Number of online/runtime languages	16
Languages	
Languages per project	32
Functionality under WinCC flexible	
Libraries	Yes
Task planner	Yes
Help system	Yes
Number of characters per info text	70
With alarm logging system (incl. buffer and acknowledgment)	
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
Recipes	
Number of recipes	500
Data records per recipe	1000
Entries per data record	1000
Recipe memory	128 KB integrated Flash, expandable
Variables	
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
Multiplexing	Yes
Structs	Yes

© Copyright Siemens AG 2013

Type Date & Time	2048
Images	
Number of configurable images	500
Permanent window/default	Yes
Start screen configurable	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
Text objects	30000 text elements
Fields per image	400
Date/time fields	400
Return	Yes
Graphics object	Bit maps, icons, vector graphics
Icons	2000
Complex image objects	
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

© Copyright Siemens AG 2013

Attributes for dynamic objects	
Color change	Yes
X/Y movement	Yes
Hide	Yes
Lists	
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
Archiving	
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	
cyclic	Yes
Tolerance	Yes
Change	Yes
Security	
Number of user groups	50
Number of user rights	32
Password export/import	Yes
Data carrier support	

© Copyright Siemens AG 2013

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"
S7-1200	Yes
S7-1500	Yes
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	

© Copyright Siemens AG 2013

Clean screen	Yes
Touch calibration	Yes
Backup/restore	Yes
Simulation	Yes
Device switchover	Yes
Delta transfer	Yes
Monitoring function for battery and memory	Yes
Expandability/openness	
Open Platform Program	Yes
I/O / Options	
I/O devices	Printer, card reader, barcode reader
Multi Media Card	Yes
SD card	Yes
USB memory	Yes
Additional software components loadable	Yes
Dimensions	
Front of enclosure (W x H)	483 mm x 400 mm
Weight	
Weight	7.7 kg
Status	Mar 4, 2013

subject to modifications
© Copyright Siemens AG 2013