

SIEMENS

Product data sheet

6AV6644-0BA01-2AX1

SIMATIC MP 377 12" KEY MULTIPANEL,
WINDOWS CE 5.0 12" COLOR-TFT-DISPLAY 12 MB
USER MEMORY CONFIGURABLE FROM WINCC
FLEXIBLE 2007 NEW KEY ALUMINIUM FRONT
WITH UNIFORM CLAMPS



Display	
Design of display	TFT
Screen diagonal	12.1 in
Size	12.1" (246 mm x 184.5 mm)
Display type	TFT, 65536 colors
Color type	Colors
Resolution (pixels)	
Horizontal image resolution	800
Vertical image resolution	600
Resolution (WxH in pixel)	800 x 600
Backlighting	
MTBF backlighting (at 25 °C)	about 50000 hours
Control elements	
Control elements	Membrane keyboard
Operating mode	

Operating options	Keys
Function keys, programmable	36 function keys, 36 with LEDs
Connection for mouse/keyboard/barcode reader	USB / USB / USB
Keyboard fonts	
Number of function keys with LEDs	36
Multi-key operation	Yes
Number of multi-key operations	2
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Multi-key operation	Yes
Supply voltage	
Supply voltage	24 V DC
Input current	
Rated current	1.5 A
Inrush current A ² s	4 A ² s
Power	
Power	36 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	
Protocols (Ethernet)	

TCP/IP	Yes
Protocols (terminal link)	
Sm@rtAccess	Yes
Further protocols	
PROFIBUS	Yes
MPI	Yes
EMC	
Emission of radio interference acc. to EN 55 011	
Emission of radio interferences acc. to EN 55 011 (limit class A)	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 %
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, cULus, C-TICK, NEMA 4, NEMA 12
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.
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	
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	
Online languages	
Number of online/runtime languages	16
Languages	
Languages per project	32
Functionality under WinCC flexible	
Libraries	Yes
Number of Visual Basic Scripts	100
Task planner	Yes
Help system	Yes
Number of info. texts	70
Status/control	With SIMATIC S7
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 (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	
Recipes	500
Data records per recipe	1000
Entries per data record	1000
Recipe memory	128 KB integrated Flash, expandable
Number of process images	
Process images	500
Variables	4096 ; Configuration with WinCC flexible 2008 and higher
Type Date & Time	2048
Number of internal variables	2000
Initial values	2048
Limit values	Yes
Multiplexing	Yes
Structs	Yes
Image elements	
Text objects	30000 text elements
Fields per image	400
Variables per image	400
Permanent window/default	Yes
Start screen configurable	Yes
Image selection via PLC	Yes
Image number in the PLC	Yes
Return	J
Graphics object	Bit maps, icons, vector graphics
Icons	2000
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
Date and time field	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
Attributes for dynamic objects	
Color change	Yes
X/Y movement	Yes
Hide	Yes
Lists	
Text lists	500
Number of text lists per image	400
Number of entries in text lists	256
Graphics list	500
Number of graphic lists per image	400

Number of entries in graphics lists	256
Archiving	
Number of archives per project	50
Number of measuring points per project	50
Number of entries per archive	50000
Archiving types	Sequence archive, circular log, alarm log, process value archive
Sequential archive	Yes
Short-term archive	Yes
Message archive	Yes
Process value 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
Passwords exportable	Yes
Data carrier support	
CF card	Yes
Multi Media Card	Yes
SD card	Yes
USB Memory Drive	Yes

Hard disk	Yes
Logging	
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	
Key repeat	Yes

TAB sequence	Yes
Calculating functions	Yes
Animate	Yes
Service tools/configuration aids	
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	
Additional software components loadable	Yes
Dimensions	
Front of enclosure (W x H)	483 mm x 310 mm
Weight	
Weight	5.5 kg
Status	Dec 1, 2011