

SIEMENS

Product data sheet

6AV6644-0CB01-2AX0



SIMATIC MP 377 15" TOUCH STAINLESS STEEL FRONT,
 RETENTIV DISPLAY COVERED BY MEMBRANE,
 PROT. CL. FRONT IP66K,
 EX 2/22 15" TFT DISPLAY,
 CONFIGURABLE WITH WINCC FLEXIBLE

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 mode	

Operating options	Touch
Connection for mouse/keyboard/barcode reader	USB / USB / USB
Keyboard fonts	
freely inscribable membrane keys	No
Number of function keys with LEDs	
Number of multi-key operations	0
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Multi-key operation	No
Touch operation	
Touch screen	Analog, resistive
Supply voltage	
Supply voltage	24 V DC
Input current	
Rated current	1.7 A ; Typical
Inrush current A ² s	4 A ² s
Power	
Power	41 W
Backup battery	
minimum backup duration	0 a
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) (max. 12 Mbit/s)
Number of RS 485 interfaces	1
Transmission rate, max.	12 Mbit/s
USB port	2 x USB
PC card slot	No

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	IP66K
Type of protection	IP20
IP (at the front)	IP66K
Rear	IP20
Standards, approvals, certificates	
Certifications	CE, FM Class I Div. 2, UL, cULus, EX Zone 2, EX Zone 22, C-TICK
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.
GL	No ; Being checked, not a development target
ABS	No ; Being checked, not a development target
BV	No ; Being checked, not a development target
DNV	No ; Being checked, not a development target
LRS	No ; Being checked, not a development target
PRS	No
Gost-R	No
Use in hazardous areas	
EX zone 2	Yes
EX zone 22	Yes
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
Debugging in the simulator	No
Task planner	Yes
Help system	Yes
Number of characters per info text	70
Number of tooltips	0
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	4000
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
Acknowledgment groups	Yes
Message indicator	Yes
Acoustic feedback	No
First/last value	Yes
Recipes	
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
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
Index of screen context	No
Return	J
Graphics object	Bit maps, icons, vector graphics
Icons	2000
Icon (full screen)	0
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 decade switches per project	0
Decade switches per image	0
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
Angle of turn	No
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	Yes
Sequential archive	Yes
Short-term archive	Yes
Memory location	Yes
PC card	No
CF card	Yes
USB memory	No
Ethernet	Yes
Data storage format	Yes
CSV	Yes
TXT	No
external evaluation	Yes
Size of archive	Yes
Online evaluation	Yes
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	
PC card	No
CF card	Yes
Diskette drive	No
Hard disk	Yes ; Only USB hard disks with external power supply
CD-ROM	No
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
serial	No
PROFIBUS DP	Yes
TI 505	Yes
Allen Bradley (DF1)	Yes
Allen Bradley (DF485)	Yes
Mitsubishi (FX)	Yes
Mitsubishi (MP4)	Yes
Telemecanique (ADJUST)	No
Telemecanique (Uni-Telway)	Yes
OMRON (LINK/Multilink)	Yes
Modicon (Modbus)	Yes
GE-Fanuc (SNP)	Yes
Functions	
Key repeat	No

TAB sequence	Yes
Calculating functions	Yes
Animate	Yes
Menu tree editor	No
Unit switchover	No
Service tools/configuration aids	
Clean screen	Yes
Touch calibration	Yes
Backup/restore	Yes
Simulation	Yes
Device switchover	Yes
Delta transfer	Yes
Monitoring function for battery and memory	Yes
Trace (operation archive)	No
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)	400 mm x 310 mm
Weight	
Weight	6.2 kg
Status	Feb 22, 2012