



Spare part as of 01.01.2015 the product is blocked for delivery and can no longer be ordered as a new part. For information on the successor See FAQ Entry ID: 82203106. For further questions, the familiar contact partners are available. SIPLUS HMI MP 377 15 inch Touch for medial exposure based on 6AV6644-0AB01-2AX0

General information	
Customer-specific configuration	No
Display	
Design of display	TFT
Screen diagonal	15 in
Color display	Yes
Number of colors	65 536
Resolution (pixels)	
• Horizontal image resolution	1 024 pixel
• Vertical image resolution	768 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Control elements	Touch screen
Keyboard fonts	
• Function keys	
— Number of function keys	0
• Numeric keyboard	Yes
• alphanumeric keyboard	Yes
• hexadecimal keyboard	Yes
Touch operation	
• Design as touch screen	Yes; analog, resistive
Connection type	
• Type of connection for mouse/keyboard/barcode reader	USB / USB / USB
Installation type/mounting	
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	
Type of supply voltage	DC
Input current	
Current consumption (rated value)	1.9 A
Power	
Active power input, typ.	45.6 W
Memory	
Type of memory	Flash / RAM
Memory available for user data	12 288 kbyte

Time of day	
Clock	
<ul style="list-style-type: none"> Type retentive synchronizable 	Hardware clock, battery backup, synchronizable Yes Yes
Interfaces	
Interfaces/bus type	1x RS 422, 1x RS 485, 2x Ethernet (RJ45)
Number of industrial Ethernet interfaces	2
Number of RS 485 interfaces	1
Number of RS 422 interfaces	1
Number of USB interfaces	2
CF card slot	1x CF card slot
Multimedia card/SD card slot	1x MultiMediaCard slot
Protocols	
PROFIBUS	Yes
MPI	Yes
Protocols (Ethernet)	
<ul style="list-style-type: none"> TCP/IP 	Yes
Protocols (terminal link)	
<ul style="list-style-type: none"> Sm@rtServer 	Yes
EMC	
Emission of radio interference acc. to EN 55 011	
<ul style="list-style-type: none"> Limit class A, for use in industrial areas 	Yes
Standards, approvals, certificates	
Certificate of suitability	CE
cULus	No
Suitable for safety functions	No
Use in hazardous areas	
<ul style="list-style-type: none"> ATEX Zone 22 FM Class I Division 2 	No No
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> min. max. 	0 °C 50 °C
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> min. max. 	-20 °C 60 °C
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> Ambient air temperature-barometric pressure-altitude 	Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
Relative humidity	
<ul style="list-style-type: none"> Operation, max. 	100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)
Resistance	
Use in stationary industrial systems	
<ul style="list-style-type: none"> — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation! Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Operating systems	
pre-installed operating system	Windows CE
Configuration	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes

Recipe management	Yes
Configuration software	
• Configuration tool	WinCC flexible Standard Version 2007 or higher (to be ordered separately)
Languages	
Online languages	
• Number of online/runtime languages	16
Project languages	
• Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Task planner	Yes
Help system	Yes
• Number of characters per info text	70
Message system	
• Number of alarm classes	32
• Number of messages	4 000
• Bit messages	Yes
— Number of bit messages	4 000
• Analog messages	Yes
— 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, etc.)	Yes
• Lines	1
• Number of characters per message	80
• Number of process values per message	8
• Message indicator	Yes
• First/last value	Yes
Recipe management	
• Number of recipes	500
• Data records per recipe	1 000
• Entries per data record	1 000
• Recipe memory	128 KB integrated Flash, expandable
Variables	
• Number of variables per device	2 048
• Number of variables per screen	400
• Number of variables	2 000
• Initial values	2 048
• Type Date & Time	2 048
• Limit values	Yes
• Multiplexing	Yes
• Structures	Yes
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	30 000 text elements
• Number of I/O fields per image	400
• Number of date/time fields	400
• Return	Yes
• Graphics object	Bit maps, icons, vector graphics
— Icons	2 000
Complex image objects	

<ul style="list-style-type: none"> • Status/control • dynamic objects <ul style="list-style-type: none"> — Number of objects per project — Number of curve diagrams per image • Methods • Bar graphs <ul style="list-style-type: none"> — Number of bars per chart • Sliders <ul style="list-style-type: none"> — Number of slides per image • Pointer instruments <ul style="list-style-type: none"> — Number of analog indicators per image • Limit value lines • Number of alphanumerical fields <ul style="list-style-type: none"> — alphanumeric fields per image • Number of numerical fields <ul style="list-style-type: none"> — numerical fields per image • Number of password fields • Number of visible switches per project <ul style="list-style-type: none"> — visible switches per image — hidden switches per image • Number of status switches per project <ul style="list-style-type: none"> — Number of status switches per image • Number of selector switches per project <ul style="list-style-type: none"> — Selector switches per image • Number of signal lamps per project <ul style="list-style-type: none"> — Signal lamps per image 	<p>With SIMATIC S7</p> <p>Diagrams, bar graphs, sliders, analog display, invisible buttons</p> <p>2 000</p> <p>20</p> <p>Trend / profile</p> <p>20</p> <p>20</p> <p>20</p> <p>Yes</p> <p>300</p> <p>400</p> <p>2 048</p> <p>400</p> <p>2 048</p> <p>400</p> <p>400</p> <p>400</p> <p>400</p> <p>400</p> <p>400</p> <p>400</p> <p>400</p> <p>400</p>
Attributes for dynamic objects	
<ul style="list-style-type: none"> • Color change • X/Y movement • Hide 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
Lists	
<ul style="list-style-type: none"> • Number of text lists per project • Number of text lists per image • Number of entries per text list • Number of graphics lists per project • Number of graphic lists per image • Number of entries per graphics list 	<p>500</p> <p>400</p> <p>256</p> <p>500</p> <p>400</p> <p>256</p>
Archiving	
<ul style="list-style-type: none"> • Number of archives per device • Number of measuring points per project • Number of entries per archive • Message archive • Process value archive • Archiving methods <ul style="list-style-type: none"> — Sequential archive — Short-term archive • Memory location <ul style="list-style-type: none"> — CF card — Ethernet • Data storage format <ul style="list-style-type: none"> — CSV • external evaluation • Size of archive • Online evaluation <ul style="list-style-type: none"> — using trend curves 	<p>50</p> <p>50</p> <p>50 000</p> <p>Yes</p> <p>Yes</p> <p>Sequential log, circular log, alarm log, process value archive</p> <p>Yes</p> <p>Yes</p> <p>CF card, SD/MMC card, Ethernet, USB memory stick</p> <p>Yes</p> <p>Yes</p> <p>CSV file, readable, e.g. with MS Excel, MS Access</p> <p>Yes</p> <p>readable, e.g. with MS Excel, MS Access, etc.</p> <p>depending on free memory on ext. card/stick or on free hard disk space via network drive</p> <p>via trends</p> <p>Yes</p>
Filters	
<ul style="list-style-type: none"> • cyclic • Tolerance 	<p>Yes</p> <p>Yes</p>

• Change	Yes
Security	
• Number of user groups	50
• Number of user rights	32
• Password export/import	Yes
Data carrier support	
• 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"
• S7-200	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	
• Clean screen	Yes
• Touch calibration	Yes
• Backup/Restore manually	Yes
• Simulation	Yes
• Device switchover	Yes
• Delta transfer	Yes
• Monitoring function for battery and memory	Yes
Expandability/openness	
• Open Platform Program	Yes
Peripherals/Options	
Peripherals	Printer, card reader, barcode reader
SIMATIC HMI MM memory card: Multi Media Card	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes
USB memory	Yes
Additional software components loadable	Yes

Dimensions	
Width of the housing front	400 mm
Height of housing front	310 mm
Overall depth	72 mm
Weights	
Weight (without packaging)	4.7 kg
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