

SPARE PART AS OF 2015-01-01 THE PRODUCT IS BLOCKED FOR DELIVERY AND IS NO LONGER AVAILABLE AS A NEW PART. INFORMATION ABOUT SUCCESSOR SEE FAQ ENTRY ID: 82203106. FOR FURTHER QUESTIONS PLEASE APPROACH YOUR SIEMENS CONTACT PERSON. . SIPLUS HMI MP377 12" TOUCH FOR MEDIAL STRESS BASED ON 6AV6644-0AA01-2AX0



General information	
Customer-specific configuration	No
Display	
Design of display	TFT
Screen diagonal	12.1 in
Number of colors	65 536
Color type	Colors
Resolution (pixels)	
• Horizontal image resolution	800 Pixel
• Vertical image resolution	600 Pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Control elements	Touch screen
Keyboard fonts	
• Numeric/alphabetical input	Yes / Yes
— hexadecimal keyboard	Yes
Touch operation	

<ul style="list-style-type: none"> • Design as touch screen 	Yes; analog, resistive
Connection type	
<ul style="list-style-type: none"> • 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)	1.5 A
Power	
Active power input, typ.	36 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 	<p>Hardware clock, battery backup, synchronizable</p> <p>Yes</p> <p>Yes</p>
Interfaces	
Interfaces/bus type	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
Multimedia card/SD card slot	1x MultiMediaCard slot
Industrial Ethernet	
<ul style="list-style-type: none"> • Industrial Ethernet interface 	2 x Ethernet (RJ45)
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

Degree and class of protection	
Front	IP65
IP (at the front)	IP65
IP (rear)	IP20

Standards, approvals, certificates	
Certifications	CE
cULus	No
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 refer to the user documentation
Suitable for safety functions	No
Use in hazardous areas	
<ul style="list-style-type: none"> • FM Class I Division 2 	No
<ul style="list-style-type: none"> • EX zone 22 	No

Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> • min. 	0 °C
<ul style="list-style-type: none"> • max. 	50 °C
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> • min. 	-20 °C
<ul style="list-style-type: none"> • max. 	60 °C
Relative humidity	
<ul style="list-style-type: none"> • Operation, max. 	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Extended ambient conditions	
<ul style="list-style-type: none"> • relative to ambient temperature-atmospheric pressure-installation altitude 	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Resistance	
— against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!
— against mechanically active substances / conformity with EN 60721-3-3	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	30000 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	
• Status/control	With SIMATIC S7
• dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
— Number of objects per project	2 000
— Number of curve diagrams per image	20
• Methods	Trend / profile
• Bar graphs	
— Number of bars per chart	20
• Sliders	
— Number of slides per image	20
• Pointer instruments	
— Number of analog indicators per image	20
• Limit value lines	Yes
• Number of alphanumeric fields	300
— alphanumeric fields per image	400
• Number of numerical fields	2 048
— numerical fields per image	400
• Number of password fields	2 048
• Number of visible switches per project	400
— visible switches per image	400
— hidden switches per image	400
• Number of status switches per project	400

— Number of 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	
• 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	50 000
• 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	via trends
— 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	
• 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

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 335 mm

Height of housing front 275 mm

Overall depth 72 mm

Weights

Weight (without packaging) 3.8 kg

last modified: 05/31/2017