

AS OF 2015-01-01 THE PRODUCT IS BLOCKED FOR DELIVERY AND IS NO LONGER AVAILABLE AS A NEW PART. INFORMATION ABOUT SUCCESSOR SEE SIMATIC UPDATE ID: 62977695 FOR FURTHER QUESTIONS PLEASE APPROACH YOUR SIEMENS CONTACT PERSON. SIMATIC OP 277 6" OPERATOR PANEL 5.7" TFT DISPLAY 4 MB CONFIGURING MEMORY, CONFIGURABLE WITH WINCC FLEXIBLE 2005 STANDARD SP1 OR HIGHER



General information	
Customer-specific configuration	Yes
Display	
Design of display	TFT
Screen diagonal	5.7 in
Number of grayscales	0
Number of colors	256
Color type	Colors
Resolution (pixels)	
• Horizontal image resolution	320 Pixel
• Vertical image resolution	240 Pixel
Backlighting	
• MTBF backlighting (at 25 °C)	60 000 h
Control elements	
Control elements	Membrane keyboard
Keyboard fonts	
• Membrane keyboard	
— user-definable label membrane keys	Yes

<ul style="list-style-type: none"> • Function keys <ul style="list-style-type: none"> — Number of function keys — Number of function keys with LEDs • System keys • Numeric/alphabetical input • Multi-key operation <ul style="list-style-type: none"> — Number of multi-key operations 	<p>24</p> <p>18</p> <p>Yes</p> <p>Yes / Yes (only English font can be displayed, only onscreen)</p> <p>Yes</p> <p>2</p>
Touch operation	
<ul style="list-style-type: none"> • Design as touch screen 	No
Connection type	
<ul style="list-style-type: none"> • Connection for mouse/keyboard/barcode reader 	USB / USB / USB
Installation type/mounting	
Mounting position	vertical
Supply voltage	
Type of supply voltage	DC
Processor	
Processor type	RISC 32-bit
Memory	
Type of memory	Flash / RAM
Memory available for user data	4 Mbyte
Main memory <ul style="list-style-type: none"> • Capacity of main memory, max. 	64 Mbyte
Time of day	
Clock	
<ul style="list-style-type: none"> • Type • retentive • synchronizable 	<p>Software clock, synchronizable, no battery backup</p> <p>No</p> <p>Yes</p>
Interfaces	
Interfaces/bus type	1 x RS422, 1 x RS485, 1 x Ethernet (RJ45)
Number of RS 485 interfaces	1
USB port	1 x USB
Multimedia card/SD card slot	1x Multimedia Card slot, up to 128 MB
Industrial Ethernet	
<ul style="list-style-type: none"> • Industrial Ethernet interface 	1 x Ethernet (RJ45)
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	Yes
Protocols (Ethernet)	

• TCP/IP	Yes
Further protocols	
• EtherNet/IP	No
• MODBUS	Yes
• other bus systems	Yes

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

Standards, approvals, certificates	
Certifications	CE, UL
Suitable for safety functions	No

Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	50 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	80 %

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	
• 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 2005 SP1 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 80

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 4 000
- 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
- Acknowledgment groups
 - Number of acknowledgement groups Yes
- Message indicator Yes
- First/last value Yes

Recipe management

- Number of recipes 300
- Data records per recipe 500
- Entries per data record 1 000
- Recipe memory 64 KB integrated Flash, expandable

Variables

- Number of variables per device 2 048
- Number of variables per screen 200
- Number of variables 1 000
- 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	10,000 text elements
• Number of I/O fields per image	200
• Number of date/time fields	200
• Return	Yes
• Graphics object	Bit maps, icons, vector graphics
— Icons	1 000
Complex image objects	
• Status/control	With SIMATIC S7
• dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
— Number of objects per project	1 000
— Number of curve diagrams per image	10
• Methods	Trend / profile
• Bar graphs	
— Number of bars per chart	10
• Sliders	
— Number of slides per image	10
• Pointer instruments	
— Number of analog indicators per image	10
• Limit value lines	Yes
• Number of alphanumerical fields	300
— alphanumeric fields per image	200
• Number of numerical fields	2 048
— numerical fields per image	200
• Number of password fields	2 048
• Number of visible switches per project	200
— visible switches per image	200
— hidden switches per image	200
• Number of status switches per project	200
— Number of status switches per image	200
• Number of selector switches per project	200
— Selector switches per image	200

• Number of decade switches per project	200
— Decade switches per image	200
• Number of signal lamps per project	200
— Signal lamps per image	200
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	200
• Number of entries per text list	256
• Number of graphics lists per project	400
• Number of graphic lists per image	200
• Number of entries per graphics list	256
Archiving	
• Number of archives per device	20
• Number of measuring points per project	20
• Number of entries per archive	10 000
• Message archive	Yes
• Process value archive	Yes
• Archiving methods	
— Sequential archive	Yes
— Short-term archive	Yes
• Memory location	MultiMediaCard
— Ethernet	Yes
• Data storage format	
— CSV	Yes
• Online evaluation	
— 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
Logging through printer	
• Recording/Printing	Alarms, report (shift report), color print, hardcopy
Transfer (upload/download)	

<ul style="list-style-type: none"> • Transfer of configuration 	MPI/PROFIBUS DP, USB, Ethernet, automatic transfer recognition
Process coupling	
<ul style="list-style-type: none"> • Connection to controller 	S5, S7-200, S7-300/400, TI 505, SINUMERIK, SIMOTION, Allen Bradley (DF1), Allen Bradley (DF485), Mitsubishi (FX), OMRON (LINK/Multilink), Modicon (Modbus) see chapter "System interfaces"
<ul style="list-style-type: none"> • S7-1200 	Yes
<ul style="list-style-type: none"> • S7-200 <ul style="list-style-type: none"> — PPI (point-to-point) — PPI network — MPI — PROFIBUS DP — Ethernet 	Yes
<ul style="list-style-type: none"> • S7-300/400 <ul style="list-style-type: none"> — MPI — PROFIBUS DP — PROFINET 	Yes
<ul style="list-style-type: none"> • S5 <ul style="list-style-type: none"> — serial — PROFIBUS DP 	Yes
<ul style="list-style-type: none"> • TI 505 	Yes
<ul style="list-style-type: none"> • Allen Bradley (DF1) 	Yes
<ul style="list-style-type: none"> • Allen Bradley (DF485) 	Yes
<ul style="list-style-type: none"> • Mitsubishi (FX) 	Yes
<ul style="list-style-type: none"> • Mitsubishi (MP4) 	Yes
<ul style="list-style-type: none"> • OMRON (LINK/Multilink) 	Yes
<ul style="list-style-type: none"> • Modicon (Modbus) 	Yes
<ul style="list-style-type: none"> • GE-Fanuc (SNP) 	Yes
Functions	
<ul style="list-style-type: none"> • TAB sequence 	Yes
<ul style="list-style-type: none"> • Calculating functions 	Yes
<ul style="list-style-type: none"> • Animate 	Yes
Service tools/configuration aids	
<ul style="list-style-type: none"> • Backup/Restore manually 	Yes
<ul style="list-style-type: none"> • Simulation 	Yes
<ul style="list-style-type: none"> • Device switchover 	Yes
<ul style="list-style-type: none"> • Delta transfer 	Yes
Expandability/openness	
<ul style="list-style-type: none"> • Open Platform Program 	Yes
Peripherals/Options	
Peripherals	Printer, barcode reader

- SIMATIC HMI MM memory card: Multi Media Card

Yes

Additional software components loadable

Yes

Dimensions

Width of the housing front

308 mm

Height of housing front

204 mm

Mounting cutout, width

281 mm

Mounting cutout, height

177 mm

Overall depth

59 mm

Weights

Weight (without packaging)

1.19 kg

Other

free hotline

Yes

Warranty period

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