

SIMATIC MP 377 PRO 15" TOUCH MULTIPANEL, WINDOWS CE
5.0 15" COLOR-TFT-DISPLAY 12 MB USER MEMORY
CONFIGURABLE FROM WINCC FLEXIBLE 2007



General information

Customer-specific configuration	No
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Display

Design of display	TFT
Screen diagonal	15 in
Number of colors	65 536
Number of greyscales	0
Color type	Colors

Resolution (pixels)

- | | |
|-------------------------------|-------------|
| • Horizontal image resolution | 1 024 Pixel |
| • Vertical image resolution | 768 Pixel |
| • Resolution (WxH in pixel) | 1024 x 768 |

Backlighting

- | | |
|--------------------------------|----------|
| • MTBF backlighting (at 25 °C) | 50 000 h |
|--------------------------------|----------|

Control elements

Control elements	Touch screen
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Keyboard fonts

- | | |
|-----------------|----|
| • Keys with LED | No |
|-----------------|----|

• System keys	No
• Numeric/alphabetical input	Yes / Yes
— hexadecimal keyboard	Yes
Touch operation	
• Design as touch screen	Yes; analog, resistive
Connection type	
• Connection for mouse/keyboard/barcode reader	USB / USB / USB
Installation type/mounting	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	45°
Supply voltage	
Type of supply voltage	DC
Input current	
Current consumption (rated value)	1.8 A
Starting current inrush I ² t	0.5 A ² ·s
Power	
Power consumption, typ.	41 W
Memory	
Type of memory	Flash / RAM
Memory available for user data	12 288 kbyte
Time of day	
Clock	
• Type	Hardware clock, battery backup, synchronizable
• Hardware clock (real-time clock)	Yes
• retentive	Yes; via Goldkap for at least 6 weeks
• synchronizable	Yes
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 slot	1x Multimedia Card slot, up to 128 MB
Industrial Ethernet	
• Industrial Ethernet interface	2 x Ethernet (RJ45)
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	Yes

MPI	Yes
Protocols (Ethernet)	
• TCP/IP	Yes
Protocols (terminal link)	
• Sm@rtServer	Yes
Further protocols	
• MODBUS	Yes
• other bus systems	Yes
Degree and class of protection	
Front	IP65, NEMA 4, (when installed)
IP (at the front)	IP65
IP (rear)	IP65
Standards, approvals, certificates	
Certifications	CE, cULus, C-TICK, NEMA 4
cULus	Yes
Suitable for safety functions	No
Use in hazardous areas	
• EX zone 22	No
• FM Class I Division 2	No
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	85 %
Operating systems	
Operating system	Windows CE
Configuration	
Message indicator	Yes
Alarm logging system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe administration	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 2008 or higher (to be ordered separately)
• 2. Configuration kit	WinCC flexible Standard
— Version	Version 2008
— Configuration tool	WinCC flexible
— Type	Standard

Languages

Online languages	
• Number of online/runtime languages	5
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	4 000
• Telegram message procedure Alarm S	Yes
• System messages HMI	Yes
• System messages PLC	Yes
• System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	Yes
• Message length (in characters)	80
• Lines	1
• Number of process values per message	8
• Message indicator	Yes
• First/last value	Yes
Recipe administration	
• 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	4 096; Configuration with WinCC flexible 2008 and higher
• Number of variables per screen	400
• Number of variables	2 000
• Initial values	2 048
• Limit values	Yes
• Multiplexing	Yes
• Structures	Yes
• Type Date & Time	2 048
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
• Limit value lines	Yes
• Number of bars per chart	20
• Limit value lines	Yes
• alphanumeric fields	300
• alphanumeric fields per image	400
• numerical fields	2 048
• numerical fields per image	400
• Password fields	2 048
• 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
• 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
— 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	No
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"
• S7-1200	Yes
• S7-1500	Yes
• 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	98.5 mm
Weights	
Weight (without packaging)	7.25 kg
Other	
free hotline	Yes
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