

SIMATIC MP 377 pro 15" Touch multi panel, Windows CE 5.0 15" color TFT display 12 MB configuration memory configurable from WinCC flexible 2007



General information	
Product type designation	MP377 PRO
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
— Number of function keys with LEDs	0
• System keys	No
— Number of system 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	
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 _{pt}	0.5 A ² ·s
Power	

Active power input, typ.	41 W
Memory	
Type of memory	Flash / RAM
Memory available for user data	12 288 kbyte
Time of day	
Clock	
- Type - retentive - synchronizable	Hardware clock, battery backup, synchronizable Yes; via Goldkap for at least 6 weeks 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; Up to 1 GB respectively
CF card slot	1x CF card slot
Multimedia card/SD card slot	1x Multimedia Card slot, up to 128 MB
With software interfaces	No
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	
TCP/IP	Yes
Protocols (terminal link)	
Sm@rtServer	Yes
Further protocols	
- MODBUS - other bus systems	Yes Yes
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP65
NEMA (front)	NEMA 4 (when installed)
Standards, approvals, certificates	
Certificate of suitability	CE, cULus, C-TICK, NEMA 4
cULus	Yes
Suitable for safety functions	No
Use in hazardous areas	
- ATEX Zone 22 - FM Class I Division 2	No No
Ambient conditions	
Ambient temperature during operation	
- min. - max.	0 °C 45 °C
Ambient temperature during storage/transportation	
- min. - max.	-20 °C 60 °C
Relative humidity	
Operation, max.	85 %
Operating systems	
pre-installed operating system	Windows CE
configuration / header	
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 2008 or higher (to be ordered separately)
• 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
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 event, more (SIMATIC S7, SINUMERIK, SIMOTION, ...)	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	4 096; Configuration with WinCC flexible 2008 and higher
• 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 • Number of I/O fields per image • Number of date/time fields • Return • Graphics object — Icons	30 000 text elements 400 400 Yes Bit maps, icons, vector graphics 2 000
Complex image objects	
• Status/control • dynamic objects — Number of objects per project — Number of curve diagrams per image • Methods • Bar graphs — Number of bars per chart • Sliders — Number of slides per image • Pointer instruments — Number of analog indicators per image • Limit value lines • Number of alphanumerical fields — alphanumeric fields per image • Number of numerical fields — numerical fields per image • Number of password fields • Number of visible switches per project — visible switches per image — hidden switches per image • Number of status switches per project — Number of status switches per image • Number of selector switches per project — Selector switches per image • Number of signal lamps per project — Signal lamps per image	With SIMATIC S7 Diagrams, bar graphs, sliders, analog display, invisible buttons 2 000 20 Trend / profile 20 20 20 Yes 300 400 2 048 400 2 048 400 400 400 400 400 400 400 400 400
Attributes for dynamic objects	
• Color change • X/Y movement • Hide	Yes Yes Yes
Lists	
• 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	500 400 256 500 400 256
Archiving	
• Number of archives per device • Number of measuring points per project • Number of entries per archive • Message archive • Process value archive • Archiving methods — Sequential archive — Short-term archive • Memory location — CF card — Ethernet • Data storage format — CSV • external evaluation • Size of archive	50 50 50 000 Yes Yes Sequential log, circular log, alarm log, process value archive Yes Yes CF card, SD/MMC card, Ethernet Yes Yes CSV file, readable, e.g. with MS Excel, MS Access Yes readable, e.g. with MS Excel, MS Access, etc. depending on free memory on ext. card/stick or on free hard disk space

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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