

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 |
| 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 |
| Keyboard fonts | |
| • Keys with LED | No |

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| • 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 |

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|--|--------------------------------|
| 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 |

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|-----------------------------------|---|
| • 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

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| • Number of online/runtime languages | 5 |
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Project languages

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| • Languages per project | 32 |
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Functionality under WinCC (TIA Portal)

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| Libraries | Yes |
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| Task planner | Yes |
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| Help system | Yes |
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| • Number of characters per info text | 70 |
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Message system

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| • 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

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| • Number of recipes | 500 |
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| • 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 |

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| • 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 |

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| • 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 | |
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| • 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 |
| last modified: | 13.02.2016 |