

*** SPARE PART*** SIMATIC MP270B 6" TOUCH MULTI PANEL
5.7" TFT DISPLAY 4 MB CONFIGURING MEMORY,
CONFIGURABLE WITH WINCC FLEXIBLE STANDARD V1.0 OR
HIGHER



| Display | |
|--------------------------------------|-----------------|
| Design of display | TFT, 256 colors |
| Screen diagonal | 5.7 in |
| Color type | Colors |
| Resolution (pixels) | |
| • Horizontal image resolution | 320 Pixel |
| • Vertical image resolution | 240 Pixel |
| • Resolution (WxH in pixel) | 320 x 240 |
| Backlighting | |
| • MTBF backlighting (at 25 °C) | 50 000 h |
| Control elements | |
| Control elements | Touch screen |
| Keyboard fonts | |
| • Membrane keyboard | No |
| — user-definable label membrane keys | No |
| • Function keys | none |
| — Number of function keys with LEDs | 0 |
| • Numeric/alphabetical input | Yes / Yes |

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| — hexadecimal keyboard | Yes |
| • Multi-key operation | No |
| — Number of multi-key operations | 0 |
| Touch operation | |
| • Design as touch screen | Yes; analog, resistive |
| Connection type | |
| • Connection for mouse/keyboard/barcode reader | USB / USB / USB |
| Special operator controls | |
| • Illuminated pushbutton | Yes |
| Installation type/mounting | |
| Mounting position | vertical |
| maximum permissible angle of inclination without external ventilation | 35° |
| Supply voltage | |
| UPS connectable (serial) | Yes |
| Input current | |
| Current consumption (rated value) | 0.75 A |
| Starting current inrush I ² t | 0.5 A ² ·s |
| Power | |
| Power consumption, typ. | 18 W |
| Processor | |
| Processor type | RISC 32-bit |
| Drives | |
| Diskette drive | No |
| CD-ROM | No |
| Hard disk | No |
| Memory | |
| Type of memory | Flash / RAM |
| Memory available for user data | 4 096 kbyte |
| Battery | |
| Backup battery | |
| • Backup battery | optional 3.6 V |
| • Backup time, min. | 3 y |
| Type of output | |
| Info LED | No |
| Power LED | No |
| Error LED | No |
| Time of day | |

| Clock | |
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| • Type | Hardware clock, battery backup, synchronizable |
| • retentive | Yes |
| • synchronizable | Yes |
| Interfaces | |
| Interfaces/bus type | 2 x RS232, 1 x RS422, 1 x RS485, 1 x Ethernet (RJ45) (max. 12 Mbit/s) |
| Number of RS 485 interfaces | 1 |
| • Transmission rate, max. | 12 Mbit/s |
| USB port | 1 x USB |
| PC card slot | 1 x PC card slot |
| CF card slot | 1 x CF card slot |
| Industrial Ethernet | |
| • Industrial Ethernet interface | 1 x Ethernet (RJ45) |
| Degree and class of protection | |
| Front | IP65 |
| IP (at the front) | IP65 |
| IP (rear) | IP20 |
| Standards, approvals, certificates | |
| Certifications | CE, GL, ABS, DNV, LRS, FM Class I Div. 2, cULus, EX Zone 2/22, C-TICK |
| Ambient conditions | |
| Free fall | |
| • Fall height, max. | 90 m |
| Ambient temperature during storage/transportation | |
| • min. | -20 °C |
| • max. | 60 °C |
| Relative humidity | |
| • Operation, max. | 90 % |
| Operating systems | |
| Operating system | Windows CE |
| Configuration | |
| Configuration software | |
| • Configuration tool | WinCC flexible Standard Version 2004 and higher (to be ordered separately) |
| • 2. Configuration kit | WinCC flexible Standard |
| — Version | Version 2004 |
| — Configuration tool | WinCC flexible |
| — Type | Standard |
| Languages | |

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| Online languages | |
| • Number of online/runtime languages | 5 |
| Project languages | |
| • Languages per project | 32 |
| Functionality under WinCC (TIA Portal) | |
| Libraries | Yes |
| Number of Visual Basic Scripts | |
| • Debugging in the simulator | No |
| Task planner | Yes |
| Help system | Yes |
| • Number of characters per info text | 70 |
| • Number of tooltips | 0 |
| 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) | 70 |
| • Lines | 1 |
| • Number of process values per message | 8 |
| • Acknowledgment groups | |
| — Number of acknowledgement groups | Yes |
| • Message indicator | Yes |
| • acoustic feedback | No |
| • First/last value | Yes |
| Recipe administration | |
| • 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 | 2 048 |

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| • 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 | 10,000 text elements |
| • Number of I/O fields per image | 200 |
| • Number of date/time fields | 200 |
| • Index of screen context | No |
| • Return | Yes |
| • Graphics object | Bit maps, icons, vector graphics |
| — Icons | 1 000 |
| — Icon (full screen) | 0 |
| 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 |
| • Limit value lines | Yes |
| • Number of bars per chart | 10 |
| • Limit value lines | Yes |
| • alphanumeric fields | 300 |
| • alphanumeric fields per image | 200 |
| • numerical fields | 2 048 |
| • numerical fields per image | 200 |
| • Password fields | 2 048 |
| • Number of slides per image | 10 |
| • Number of analog indicators per image | 10 |
| • 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 |

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| • 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 |
| • Angle of rotation | No |
| Lists | |
| • Number of text lists per project | 500 |
| • 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 | Sequence archive, circular log, alarm log, process value archive |
| — Sequential archive | Yes |
| — Short-term archive | Yes |
| • Memory location | PC card, CF card, Ethernet |
| — PC card | Yes |
| — CF card | Yes |
| — USB memory | No |
| — Ethernet | Yes |
| • Data storage format | CSV file, readable, e.g. with MS Excel, MS Access |
| — CSV | Yes |
| — TXT | No |
| • 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 |

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| • Change | Yes |
| Security | |
| • Number of user groups | 50 |
| • Number of user rights | 32 |
| • Password export/import | Yes |
| Data carrier support | |
| • PC card | Yes |
| • CF card | Yes |
| • Diskette drive | No |
| • Hard disk | No |
| • CD-ROM | No |
| 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), Telemecanique (ADJUST), OMRON (LINK/Multilink), Modicon (Modbus), for further non-Siemens drivers, see section on "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 |
| — serial | Yes |
| — PROFIBUS DP | Yes |
| • TI 505 | Yes |
| • Allen Bradley (DF1) | Yes |
| • Allen Bradley (DF485) | Yes |
| • Mitsubishi (FX) | Yes |
| • Mitsubishi (MP4) | Yes |
| • Telemecanique (ADJUST) | Yes |
| • Telemecanique (Uni-Telway) | Yes |
| • OMRON (LINK/Multilink) | Yes |

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| • Modicon (Modbus) | Yes |
| • GE-Fanuc (SNP) | Yes |
| Functions | |
| • Key repeat | No |
| • TAB sequence | Yes |
| • Calculating functions | Yes |
| • Animate | Yes |
| • Menu tree editor | No |
| • Unit switchover | No |
| 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 |
| • Trace (operation archive) | No |
| Expandability/openness | |
| • Open Platform Program | Yes |
| Peripherals/Options | |
| Peripherals | Printer, barcode reader |
| • SIMATIC HMI MM memory card: Multi Media Card | No |
| • SIMATIC HMI SD memory card: Secure Digital memory card | No |
| • USB memory | No |
| Dimensions | |
| Width of the housing front | 212 mm |
| Height of housing front | 156 mm |
| Weights | |
| Weight (without packaging) | 1 kg |
| Other | |
| free hotline | Yes |
| Warranty period | 1 y |
| last modified: | 17.03.2016 |