

SIMATIC Mobile Panel 177 DP with integrated acknowledgment button, stop button, handwheel, D key-operated switch and illuminated pushbutton, configurable with WinCC flexible Compact Version 2005 or higher or TIA Portal V11 to V14



Figure similar

| Display | |
|---|----------------|
| Design of display | STN |
| Screen diagonal | 5.7 in |
| Color display | Yes |
| Number of colors | 256 |
| Resolution (pixels) | |
| • Horizontal image resolution | 320 Pixel |
| • Vertical image resolution | 240 Pixel |
| Backlighting | |
| • MTBF backlighting (at 25 °C) | 50 000 h |
| • Backlight dimmable | No |
| Control elements | |
| Control elements | Keys and touch |
| Keyboard fonts | |
| • Membrane keyboard — user-definable label membrane keys | Yes |
| • Function keys | |

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|-------------------------------------|---------------------------------------|
| — Number of function keys | 14 |
| — Number of function keys with LEDs | 8 |
| • Keys with LED | Yes; 8 with LED |
| • System keys | Yes |
| • Numeric keyboard | Yes |
| • alphanumeric keyboard | Yes |
| • hexadecimal keyboard | Yes |
| • Multi-key operation | Yes |
| — Number of multi-key operations | 2 |
| Touch operation | |
| • Design as touch screen | Yes; analog, resistive |
| Special operator controls | |
| • Stop button | Yes |
| • Acknowledgement button | Yes |
| • Key-operated switch | Yes |
| • Illuminated pushbutton | Yes |
| • Handwheel | Yes |
| Supply voltage | |
| Design of the power supply | via connection box |
| Type of supply voltage | DC |
| Processor | |
| Processor type | RISC 32 bit, 200 MHz |
| Drives | |
| Diskette drive | No |
| CD-ROM | No |
| Hard disk | No |
| Memory | |
| Type of memory | Flash / RAM |
| Memory available for user data | 2 048 kbyte |
| Type of output | |
| Info LED | No |
| Power LED | No |
| Error LED | No |
| Interfaces | |
| Interfaces/bus type | 1x RS 422, 1x RS 485 (max. 12 Mbit/s) |
| Number of RS 485 interfaces | 1 |
| • Transmission rate, max. | 12 Mbit/s |
| Number of USB interfaces | 0 |
| Number of parallel interfaces | 0 |
| Number of wireless interfaces | 0 |

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| PC card slot | No |
| CF card slot | No |
| Multimedia card/SD card slot | combined |
| Special interfaces | 1x special interfaces |
| Industrial Ethernet | |
| • Industrial Ethernet interface | No |
| • Industrial Ethernet status LED | 0 |
| Protocols | |
| PROFINET | No |
| Supports protocol for PROFINET IO | No |
| PROFIsafe | No |
| PROFIBUS | Yes |
| AS-Interface | No |
| Protocols (Ethernet) | |
| • TCP/IP | No |
| Further protocols | |
| • CAN | No |
| • Data-Highway | No |
| • DeviceNet | No |
| • INTERBUS | No |
| • Local Operating Network | No |
| • MODBUS | Yes |
| • SUCOnet | No |
| • other bus systems | Yes |
| Degree and class of protection | |
| Degree of protection acc. to EN 60529 | IP65 |
| Standards, approvals, certificates | |
| Certifications | CE, cULus, C-TICK, SIBE |
| CE mark | Yes |
| cULus | Yes |
| RCM (formerly C-TICK) | Yes |
| Suitable for safety functions | Yes |
| Highest safety class achievable in safety mode | |
| • Performance level according to ISO 13849-1 | d |
| Use in hazardous areas | |
| • cULus Class I Zone 2, Division 2 | No |
| • FM Class I Division 2 | No |
| Ambient conditions | |
| Free fall | |
| • Fall height, max. | 1.5 m |
| Ambient temperature during operation | |

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| • min. | 0 °C |
| • max. | 40 °C |
| Ambient temperature during storage/transportation | |
| • min. | -20 °C |
| • max. | 60 °C |
| Relative humidity | |
| • Operation, max. | 80 % |

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| Operating systems | |
| pre-installed operating system | Windows CE |

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| 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 |

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| Configuration software | |
| • Configuration tool | WinCC flexible Compact Version 2005 or higher (to be ordered separately) |
| • WinCC flexible Compact | Yes |
| • 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 |

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| Languages | |
| Online languages | |
| • Number of online/runtime languages | 5 |
| Project languages | |
| • Languages per project | 32 |

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| Functionality under WinCC (TIA Portal) | |
| Libraries | Yes |
| Applications/options | none |
| • Pocket Word | No |
| • Pocket Excel | No |
| • PDF Viewer | No |
| • Media Player | No |
| • SIMATIC WinCC Sm@rtServer | Yes |
| • SIMATIC WinCC Audit | No |
| • Connection point identification | Yes |
| Number of Visual Basic Scripts | No |

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| • Debugging in the simulator | No |
| Task planner | Yes |
| Help system | Yes |
| • Number of characters per info text | 70 |
| Message system | |
| • Number of alarm classes | 32 |
| • Number of messages | 2 000 |
| • Bit messages | Yes |
| — Number of bit messages | 2 000 |
| • Analog messages | Yes |
| — Number of analog messages | 50 |
| • Telegram message procedure Alarm S | No |
| • System messages HMI | Yes |
| • System messages PLC | No |
| • System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) | No |
| • Lines | 1 |
| • Number of characters per message | 80 |
| • Number of process values per message | 8 |
| • Message indicator | Yes |
| • acoustic feedback | No |
| • First/last value | Yes |
| Recipe management | |
| • Number of recipes | 100 |
| • Data records per recipe | 200 |
| • Entries per data record | 200 |
| • Recipe memory | 32 KB integrated Flash, expandable |
| Variables | |
| • Number of variables per device | 1 024 |
| • Number of variables per screen | 50 |
| • 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 | 2,500 text elements |
| • Number of I/O fields per image | 50 |

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| • Index of screen context | No |
| • Return | Yes |
| • Graphics object | Bit maps, vector graphics |
| Complex image objects | |
| • Status/control | Yes; With SIMATIC S7 |
| • dynamic objects | Diagrams, bar graphs, sliders, invisible buttons |
| • Methods | Trend / profile |
| • Bar graphs | |
| — Number of bars per chart | 5 |
| • Limit value lines | Yes |
| • Number of visible switches per project | 1 000 |
| Attributes for dynamic objects | |
| • Color change | Yes |
| • X/Y movement | Yes |
| • Hide | Yes |
| • Angle of rotation | No |
| Lists | |
| • Number of text lists per project | 300 |
| • Number of entries per text list | 30 |
| • Number of graphics lists per project | 100 |
| Archiving | |
| • Number of archives per device | 0 |
| • Message archive | No |
| • Process value archive | No |
| • Archiving methods | |
| — Sequential archive | No |
| — Short-term archive | No |
| • Memory location | |
| — PC card | No |
| — CF card | No |
| — USB memory | No |
| — Ethernet | No |
| • Data storage format | |
| — CSV | No |
| — TXT | No |
| • Online evaluation | |
| — using trend curves | No |
| Security | |
| • Number of user groups | 50 |
| • Number of user rights | 32 |
| • Password export/import | Yes |

| Data carrier support | |
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| • PC card | No |
| • CF card | No |
| • Diskette drive | No |
| • Hard disk | No |
| Transfer (upload/download) | |
| • Transfer of configuration | MPI/PROFIBUS DP, serial, automatic transfer recognition |
| Process coupling | |
| • Connection to controller | S5, S7-200, S7-300/400, TI 505, Win AC, 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; with restrictions |
| • S7-1500 | Yes; with restrictions |
| • 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 | No |
| • LOGO! | No |
| • SINUMERIK | Yes |
| • SIMOTION | Yes |
| • S5 | Yes |
| — serial | No |
| — PROFIBUS DP | Yes |
| • TI 505 | Yes |
| • Allen Bradley (EtherNet/IP) | No |
| • Allen Bradley (DF1) | Yes |
| • Allen Bradley (DF485) | Yes |
| • Mitsubishi (MC TCP/IP) | No |
| • Mitsubishi (FX) | Yes |
| • Mitsubishi (MP4) | Yes |
| • Telemecanique (ADJUST) | No |
| • Telemecanique (Uni-Telway) | Yes |
| • OMRON (FINS TCP) | No |
| • OMRON (LINK/Multilink) | Yes |
| • Modicon (Modbus TCP/IP) | No |
| • Modicon (Modbus) | Yes |

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| • 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 | No |
| • 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 | Yes |
| • SIMATIC HMI MM memory card: Multi Media Card | Yes |
| • SIMATIC HMI SD memory card: Secure Digital memory card | No |
| • USB memory | No |
| Mechanics/material | |
| Enclosure material (front) | plastic |
| Dimensions | |
| Enclosure diameter | 245 mm |
| Depth of housing | 58 mm |
| Weights | |
| Weight (without packaging) | 1.3 kg |
| Other | |
| free hotline | Yes |
| Warranty period | 1 y |
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