

\*\*\* spare part \*\*\* SIMATIC Mobile Panel 177 PN with integrated acknowledgment button, configurable with WinCC flexible Compact Version 2005 or higher or TIA Portal V11 to V14



Figure similar

| General information                  |                        |
|--------------------------------------|------------------------|
| Product type designation             | Mobile Panel 177 PN    |
| 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                      |                        |
| — Number of function keys            | 14                     |
| — Number of function keys with LEDs  | 8                      |
| • Keys with LED                      | Yes; 8 with LED        |
| • 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                        | No                     |
| • Acknowledgement button             | Yes                    |
| • Key-operated switch                | No                     |
| • Illuminated pushbutton             | No                     |
| • Handwheel                          | No                     |
| Supply voltage                       |                        |
| Design of the power supply           | via connection box     |
| Type of supply voltage               | DC                     |
| Processor                            |                        |

|                                                          |                                 |
|----------------------------------------------------------|---------------------------------|
| Processor type                                           | RISC 32 bit, 200 MHz            |
| <b>Memory</b>                                            |                                 |
| Type of memory                                           | Flash / RAM                     |
| Memory available for user data                           | 2 048 kbyte                     |
| <b>Accumulator</b>                                       |                                 |
| Buffer battery                                           | Yes; maximum buffer time 10 min |
| <b>Type of output</b>                                    |                                 |
| Info LED                                                 | No                              |
| Power LED                                                | No                              |
| Error LED                                                | No                              |
| <b>Interfaces</b>                                        |                                 |
| Interfaces/bus type                                      | 1x RS 485, 1x Ethernet (RJ45)   |
| Number of industrial Ethernet interfaces                 | 1                               |
| Number of RS 485 interfaces                              | 1                               |
| Number of RS 422 interfaces                              | 0                               |
| Number of USB interfaces                                 | 0                               |
| Number of wireless interfaces                            | 0                               |
| PC card slot                                             | No                              |
| CF card slot                                             | No                              |
| Multimedia card/SD card slot                             | combined                        |
| <b>Protocols</b>                                         |                                 |
| Supports protocol for PROFINET IO                        | Yes                             |
| PROFIsafe                                                | No                              |
| PROFIBUS                                                 | No                              |
| EtherNet/IP                                              | No                              |
| AS-Interface                                             | No                              |
| <b>Protocols (Ethernet)</b>                              |                                 |
| • TCP/IP                                                 | Yes                             |
| <b>Further protocols</b>                                 |                                 |
| • MODBUS                                                 | Yes                             |
| • other bus systems                                      | Yes                             |
| <b>communication functions / header</b>                  |                                 |
| <b>Wireless communication</b>                            |                                 |
| • supported standards                                    |                                 |
| — Radio standard WLAN 802.11                             | No                              |
| <b>Standards, approvals, certificates</b>                |                                 |
| Certificate of suitability                               | CE, cULus, C-TICK, SIBE         |
| CE mark                                                  | Yes                             |
| cULus                                                    | Yes                             |
| RCM (formerly C-TICK)                                    | Yes                             |
| Suitable for safety functions                            | Yes                             |
| <b>Highest safety class achievable in safety mode</b>    |                                 |
| • Performance level according to ISO 13849-1             | d                               |
| <b>Use in hazardous areas</b>                            |                                 |
| • cULus Class I Zone 2, Division 2                       | No                              |
| • FM Class I Division 2                                  | No                              |
| <b>Ambient conditions</b>                                |                                 |
| <b>Free fall</b>                                         |                                 |
| • Fall height, max.                                      | 1.5 m                           |
| <b>Ambient temperature during operation</b>              |                                 |
| • min.                                                   | 0 °C                            |
| • max.                                                   | 40 °C                           |
| <b>Ambient temperature during storage/transportation</b> |                                 |
| • min.                                                   | -20 °C                          |
| • max.                                                   | 60 °C                           |
| <b>Relative humidity</b>                                 |                                 |
| • Operation, max.                                        | 80 %                            |
| <b>Operating systems</b>                                 |                                 |
| pre-installed operating system                           | Windows CE                      |
| <b>configuration / header</b>                            |                                 |

|                                                              |                                                                          |
|--------------------------------------------------------------|--------------------------------------------------------------------------|
| Message indicator                                            | Yes                                                                      |
| Alarm system (incl. buffer and acknowledgment)               | Yes                                                                      |
| Process value display (output)                               | Yes                                                                      |
| Process value default (input) possible                       | Yes                                                                      |
| Recipe management                                            | Yes                                                                      |
| <b>Configuration software</b>                                |                                                                          |
| • 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                                                                      |
| <b>Languages</b>                                             |                                                                          |
| <b>Online languages</b>                                      |                                                                          |
| • Number of online/runtime languages                         | 5                                                                        |
| <b>Project languages</b>                                     |                                                                          |
| • Languages per project                                      | 32                                                                       |
| <b>Functionality under WinCC (TIA Portal)</b>                |                                                                          |
| Libraries                                                    | Yes                                                                      |
| Applications/options                                         | Sm@rtService, Sm@rtAccess                                                |
| • Web browser                                                | No                                                                       |
| • 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                                                                       |
| • Debugging in the simulator                                 | No                                                                       |
| Task planner                                                 | Yes                                                                      |
| Help system                                                  | Yes                                                                      |
| • Number of characters per info text                         | 70                                                                       |
| <b>Message system</b>                                        |                                                                          |
| • Number of alarm classes                                    | 32                                                                       |
| • 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 event, more (SIMATIC S7, SINUMERIK, SIMOTION, ... ) | 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                                                                      |
| <b>Recipe management</b>                                     |                                                                          |
| • Number of recipes                                          | 100                                                                      |
| • Data records per recipe                                    | 200                                                                      |
| • Entries per data record                                    | 200                                                                      |
| • Recipe memory                                              | 32 KB integrated Flash, expandable                                       |
| <b>Variables</b>                                             |                                                                          |
| • Number of variables per device                             | 1 024                                                                    |
| • Number of variables per screen                             | 50                                                                       |
| • Limit values                                               | Yes                                                                      |

|                                          |                                                                                                           |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| • Multiplexing                           | Yes                                                                                                       |
| • Structures                             | Yes                                                                                                       |
| <b>Images</b>                            |                                                                                                           |
| • Number of configurable images          | 500                                                                                                       |
| • Permanent window/default               | Yes                                                                                                       |
| • Start screen configurable              | Yes                                                                                                       |
| • Image selection by PLC                 | Yes                                                                                                       |
| • Image number in the PLC                | Yes                                                                                                       |
| <b>Image objects</b>                     |                                                                                                           |
| • Text objects                           | 2 500 text elements                                                                                       |
| • Number of I/O fields per image         | 50                                                                                                        |
| • Index of screen context                | No                                                                                                        |
| • Return                                 | Yes                                                                                                       |
| • Graphics object                        | Bit maps, vector graphics                                                                                 |
| <b>Complex image objects</b>             |                                                                                                           |
| • 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                                                                                                     |
| <b>Attributes for dynamic objects</b>    |                                                                                                           |
| • Color change                           | Yes                                                                                                       |
| • X/Y movement                           | Yes                                                                                                       |
| • Hide                                   | Yes                                                                                                       |
| • Angle of rotation                      | No                                                                                                        |
| <b>Lists</b>                             |                                                                                                           |
| • Number of text lists per project       | 300                                                                                                       |
| • Number of entries per text list        | 30                                                                                                        |
| • Number of graphics lists per project   | 100                                                                                                       |
| <b>Archiving</b>                         |                                                                                                           |
| • Number of archives per device          | 0                                                                                                         |
| • Message archive                        | No                                                                                                        |
| • Process value archive                  | No                                                                                                        |
| • Archiving methods                      |                                                                                                           |
| — Sequential archive                     | No                                                                                                        |
| — Short-term archive                     | No                                                                                                        |
| • Memory location                        |                                                                                                           |
| — USB memory                             | No                                                                                                        |
| — Ethernet                               | No                                                                                                        |
| • Data storage format                    |                                                                                                           |
| — CSV                                    | No                                                                                                        |
| — TXT                                    | No                                                                                                        |
| • Online evaluation                      |                                                                                                           |
| — using trend curves                     | No                                                                                                        |
| <b>Security</b>                          |                                                                                                           |
| • Number of user groups                  | 50                                                                                                        |
| • Number of user rights                  | 32                                                                                                        |
| • Password export/import                 | Yes                                                                                                       |
| <b>Transfer (upload/download)</b>        |                                                                                                           |
| • Transfer of configuration              | Serial, Ethernet, automatic transfer recognition                                                          |
| <b>Process coupling</b>                  |                                                                                                           |
| • Connection to controller               | S7-200, S7- 300/400, Win AC, PC (TCP/IP), SIMOTION, Modicon (Modbus), see the chapter "System interfaces" |
| • S7-1200                                | Yes; with restrictions                                                                                    |
| • S7-1500                                | Yes; with restrictions                                                                                    |
| • S7-200                                 | Yes                                                                                                       |
| — PPI (point-to-point)                   | No                                                                                                        |
| — PPI network                            | No                                                                                                        |
| — MPI                                    | No                                                                                                        |

|                                                        |         |         |                |
|--------------------------------------------------------|---------|---------|----------------|
| — PROFIBUS DP                                          | No      |         |                |
| — Ethernet                                             | Yes     |         |                |
| • S7-300/400                                           | Yes     |         |                |
| — MPI                                                  | No      |         |                |
| — PROFIBUS DP                                          | No      |         |                |
| — PROFINET                                             | Yes     |         |                |
| • LOGO!                                                | No      |         |                |
| • WinAC                                                | Yes     |         |                |
| • SINUMERIK                                            | Yes     |         |                |
| • SIMOTION                                             | Yes     |         |                |
| • S5                                                   | No      |         |                |
| — serial                                               | No      |         |                |
| — PROFIBUS DP                                          | No      |         |                |
| • TI 505                                               | No      |         |                |
| • Allen Bradley (EtherNet/IP)                          | Yes     |         |                |
| • Allen Bradley (DF1)                                  | No      |         |                |
| • Allen Bradley (DF485)                                | No      |         |                |
| • Mitsubishi (MC TCP/IP)                               | Yes     |         |                |
| • Mitsubishi (FX)                                      | No      |         |                |
| • Mitsubishi (MP4)                                     | No      |         |                |
| • Telemecanique (ADJUST)                               | No      |         |                |
| • Telemecanique (Uni-Telway)                           | No      |         |                |
| • OMRON (FINS TCP)                                     | No      |         |                |
| • OMRON (LINK/Multilink)                               | No      |         |                |
| • Modicon (Modbus TCP/IP)                              | Yes     |         |                |
| • Modicon (Modbus)                                     | No      |         |                |
| • GE-Fanuc (SNP)                                       | No      |         |                |
| 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 |         |                |
| 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  |         |                |
| Classifications                                        |         |         |                |
|                                                        |         | Version | Classification |

|        |     |             |
|--------|-----|-------------|
| eClass | 14  | 27-33-02-02 |
| eClass | 12  | 27-33-02-02 |
| eClass | 9.1 | 27-33-02-02 |
| eClass | 9   | 27-33-02-02 |
| eClass | 8   | 27-24-23-03 |
| eClass | 7.1 | 27-24-23-03 |
| eClass | 6   | 27-24-23-03 |
| ETIM   | 9   | EC001427    |
| ETIM   | 8   | EC001427    |
| ETIM   | 7   | EC001427    |
| IDEA   | 4   | 6607        |
| UNSPSC | 15  | 43-21-15-06 |

Approvals / Certificates

|                          |     |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|

[Manufacturer Declaration](#)

  
EG-Konf.



[Miscellaneous](#)

[KC](#)

  
RCM

|                   |                                           |
|-------------------|-------------------------------------------|
| Functional Safety | Radio Equipment Type Approval Certificate |
|-------------------|-------------------------------------------|

[Type Examination Certificate](#)

[Miscellaneous](#)

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