

# SIEMENS

## Product data sheet

**6AV6645-0AC01-0AX0**

SIMATIC MOBILE PANEL 177 DP W. INTEGRATED ENABLING BUTTON, STOP BUTTON, HANDWHEEL, KEY SWITCH AND ILLUMINATED PUSHBUTTON UNIT, CONFIGURABLE W. WINCC FLEXIBLE COMPACT VERSION 2005 AND HIGHER



| Display                      |                       |
|------------------------------|-----------------------|
| Design of display            | STN                   |
| Screen diagonal              | 5.7 in                |
| Size                         | 5.7" (121 mm x 92 mm) |
| Display type                 | STN, 256 colors       |
| Number of greyscale          | 256                   |
| Color type                   | Colors                |
| Resolution (pixels)          |                       |
| Horizontal image resolution  | 320                   |
| Vertical image resolution    | 240                   |
| Resolution (WxH in pixel)    | 320 x 240             |
| Backlighting                 |                       |
| MTBF backlighting (at 25 °C) | about 50,000 hours    |
| Control elements             |                       |
| Operating mode               |                       |

|   |   |
|---|---|
| Operating options                                   | Keys and Touch  |
| Function keys, programmable                         | 14 function keys, 8 with LEDs                                       |
| <b>Keyboard fonts</b>                               |   |
| Keys with LED                                       | Yes   |
| freely inscribable membrane keys                    | Yes   |
| Number of function keys with LEDs                   | 8   |
| Multi-key operation                                 | Yes   |
| Number of multi-key operations                      | 2   |
| Number of configurable system keys                  | 14  |
| System keys   | Yes   |
| Numeric/alphabetical input                          | Yes / Yes   |
| hexadecimal keyboard                                | Yes   |
| Multi-key operation                                 | No  |
| <b>Touch operation</b>                              |   |
| Touch screen  | Analog, resistive   |
| <b>Special operator controls</b>                    |   |
| Illuminated pushbutton                              | Yes   |
| Handwheel   | Yes   |
| <b>Supply voltage</b>                               |   |
| Supply voltage                                      | via connection box  |
| Design of electrical connection, plug-in connection | 1   |
| <b>Processor</b>                                    |   |
| Processor   | RISC 32-bit, 200 MHz  |
| Processor type                                      | RISC 32-bit   |
| <b>Memory</b>                                       |   |
| Type  | Flash / RAM   |
| Usable memory for user data                         | 2048 KB of usable memory for user data / no user memory for options |
| <b>Type of output</b>                               |   |
| Info LED  | No  |
| Power LED   | No  |
| Error LED   | No  |
| <b>Drives</b>                                       |   |
| Diskette drive                                      | No  |

|                                |                                       |
|--------------------------------|---------------------------------------|
| CD-ROM                         | No                                    |
| Hard disk                      | No                                    |
| <b>Interfaces</b>              |                                       |
| Interfaces                     | 1 x RS422, 1 x RS485 (max. 12 Mbit/s) |
| Number of RS 485 interfaces    | 1                                     |
| Transmission rate, max.        | 12 Mbit/s                             |
| USB port                       | No                                    |
| PC card slot                   | No                                    |
| CF card slot                   | No                                    |
| Multimedia card/SD card slot   | combined                              |
| Number of parallel interfaces  | 0                                     |
| Special interfaces             | 1 x special interfaces                |
| <b>Industrial Ethernet</b>     |                                       |
| Industrial Ethernet interface  | No                                    |
| Industrial Ethernet status LED | 0                                     |
| <b>Protocols</b>               |                                       |
| <b>Protocols (Ethernet)</b>    |                                       |
| TCP/IP                         | Yes                                   |
| <b>Further protocols</b>       |                                       |
| PROFIBUS                       | Yes                                   |
| AS-i                           | No                                    |
| CAN                            | No                                    |
| INTERBUS                       | No                                    |
| MODBUS                         | Yes                                   |
| Data highway                   | No                                    |
| DeviceNet                      | No                                    |
| Local Operating Network        | No                                    |
| SUCOnet                        | No                                    |
| other bus systems              | Yes                                   |
| <b>Ambient conditions</b>      |                                       |
| Drop height                    | 1.5 m                                 |
| <b>Operating temperature</b>   |                                       |
| Operation                      | 0 °C to +40 °C                        |

|   |   |
|---|---|
| <b>Storage/transport temperature</b>                        |   |
| Transport, storage  | -20 °C to +60 °C  |
| <b>Relative humidity</b>                                    |   |
| max. relative humidity                                      | 80 %  |
| <b>Degree and class of protection</b>                       |   |
| IP65 enclosure  | Yes   |
| <b>Standards, approvals, certificates</b>                   |   |
| Certifications  | CE, cULus, C-TICK, SIBE   |
| Safety category according to EN954-1                        | Safety category according to EN954-1<br>(acknowledgment button, STOP button if present) 3 |
| <b>Operating systems</b>                                    |   |
| Operating system  | Windows CE  |
| <b>Configuration</b>  |   |
| Message indicator   | Yes   |
| With alarm logging system (incl. buffer and acknowledgment) | Yes   |
| Process value display (output)                              | Yes   |
| Process value default (input) possible                      | Yes   |
| Recipe administration                                       | Yes   |
| <b>Configuration software</b>                               |   |
| Configuration tool  | WinCC flexible Compact Version 2005 or higher (to be ordered separately)                  |
| 2nd configuration kit                                       | WinCC flexible Compact  |
| Version   | Version 2005  |
| Configuration tool  | WinCC flexible  |
| Type  | Compact   |
| <b>Languages</b>  |   |
| <b>Online languages</b>                                     |   |
| Number of online/runtime languages                          | 5   |
| <b>Languages</b>  |   |
| Languages per project                                       | 32  |
| <b>Functionality under WinCC flexible</b>                   |   |
| Libraries   | Yes   |
| Applications/options  | none  |

|  |                                    |
|--|------------------------------------|
| Connection point identification                                    | Yes                                |
| Number of Visual Basic Scripts                                     | Not possible                       |
| Debugging in the simulator   | No                                 |
| Task planner   | Yes                                |
| Help system  | Yes                                |
| Number of characters per info text                                 | 70                                 |
| <b>With alarm logging system (incl. buffer and acknowledgment)</b> |                                    |
| Number of alarm classes  | 32                                 |
| Number of messages   | 2000                               |
| Bit messages   | Yes                                |
| Analog messages  | Yes                                |
| Number of bit messages   | 2000                               |
| 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,..)        | No                                 |
| Message length (in characters)                                     | 80                                 |
| Lines  | 1                                  |
| Number of process values per message                               | 8                                  |
| Message indicator  | Yes                                |
| Acoustic feedback  | No                                 |
| First/last value   | Yes                                |
| <b>Recipes</b>   |                                    |
| 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                                     | 1024                               |
| Number of variables per screen                                     | 50                                 |
| Limit values   | Yes                                |
| Multiplexing   | Yes                                |

|  |  |
|--|--|
| Structs                                | 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                              |
| Fields per image                       | 50   |
| Index of screen context                | No   |
| Return                                 | J  |
| Graphics object                        | Bit maps, vector graphics                        |
| <b>Complex image objects</b>           |  |
| Status/control                         | With SIMATIC S7                                  |
| dynamic objects                        | Diagrams, bar graphs, sliders, invisible buttons |
| Methods                                | Trend / profile                                  |
| Limit value lines                      | Yes  |
| Number of bars per chart               | 5  |
| Limit value lines                      | Yes  |
| Number of visible switches per project | 1000   |
| <b>Attributes for dynamic objects</b>  |  |
| Color change                           | Yes  |
| X/Y movement                           | Yes  |
| Hide                                   | Yes  |
| Angle of turn                          | 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>                       |  |
| 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   |
| <b>Security</b>                   |  |
| Number of user groups             | 50   |
| Number of user rights             | 32   |
| Password export/import            | Yes  |
| <b>Data carrier support</b>       |  |
| PC card                           | No   |
| CF card                           | No   |
| Diskette drive                    | No   |
| Hard disk                         | No   |
| <b>Logging through printer</b>    |  |
| Recording/Printing                | -  |
| <b>Transfer (upload/download)</b> |  |
| Transfer of configuration         | MPI/PROFIBUS DP, serial, automatic transfer recognition  |
| <b>Process coupling</b>           |  |
| 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), weitere Fremdtreiber siehe Kapitel "Systemkopplungen" |
| 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  |
| S5                                      | Yes |
| serial                                  | No  |
| PROFIBUS DP                             | Yes |
| TI 505                                  | Yes |
| Allen Bradley (DF1)                     | Yes |
| Allen Bradley (DF485)                   | Yes |
| Mitsubishi (FX)                         | Yes |
| Mitsubishi (MP4)                        | Yes |
| Telemecanique (ADJUST)                  | No  |
| Telemecanique (Uni-Telway)              | Yes |
| OMRON (LINK/Multilink)                  | Yes |
| Modicon (Modbus)                        | Yes |
| GE-Fanuc (SNP)                          | Yes |
| <b>Functions</b>                        |     |
| Key repeat                              | No  |
| TAB sequence                            | Yes |
| Calculating functions                   | Yes |
| Animate                                 | Yes |
| Menu tree editor                        | No  |
| Unit switchover                         | No  |
| <b>Service tools/configuration aids</b> |     |
| Clean screen                            | No  |
| Touch calibration                       | Yes |
| Backup/restore                          | Yes |
| Simulation                              | Yes |
| Device switchover                       | Yes |



|  |                      |
|--|----------------------|
| Delta transfer                             | Yes                  |
| Monitoring function for battery and memory | Yes                  |
| Trace (operation archive)                  | No                   |
| <b>Expandability/openness</b>              |                      |
| Open Platform Program                      | Yes                  |
| <b>I/O / Options</b>                       |                      |
| I/O devices                                |                      |
| Multi Media Card                           | Yes                  |
| SD card                                    | No                   |
| USB memory                                 | No                   |
| <b>Mechanics/material</b>                  |                      |
| Type of housing (front)                    | Plastic              |
| <b>Dimensions</b>                          |                      |
| Housing diameter/depth (mm)                | Dia 245 mm / D 58 mm |
| <b>Weight</b>                              |                      |
| Weight                                     | 1.3 kg               |
| <b>other</b>                               |                      |
| free hotline                               | Yes                  |
| Warranty period                            | 1 a                  |
| Status                                     | Feb 6, 2012          |