

# SIEMENS

## Product data sheet

**6AV6645-0CC01-0AX0**


SIMATIC MOBILE PANEL 277 W. INTEGRATED  
ENABLING BUTTON,  
STOP BUTTON, HANDWHEEL,  
KEY SWITCH AND TWO ILLUMINATED  
PUSHBUTTON,  
CONFIGURABLE W. WINCC FLEXIBLE STANDARD  
VERSION 2005 SP1 AND HIGHER

### General information

|                                 |     |
|---------------------------------|-----|
| Customer-specific configuration | Yes |
|---------------------------------|-----|

### Display

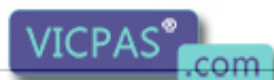
|                      |                   |
|----------------------|-------------------|
| Design of display    | TFT               |
| Screen diagonal      | 7.5 in            |
| Size                 | 7.5"              |
| Display type         | TFT, 65536 colors |
| Number of greyscales | 65536             |
| Color type           | Colors            |

### Resolution (pixels)

|                             |           |
|-----------------------------|-----------|
| Horizontal image resolution | 640       |
| Vertical image resolution   | 480       |
| Resolution (WxH in pixel)   | 640 x 480 |

### Backlighting

|                              |                    |
|------------------------------|--------------------|
| MTBF backlighting (at 25 °C) | about 50,000 hours |
|------------------------------|--------------------|



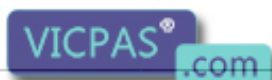
Date:  
02/24/2012

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|                                                     |                                   |
|-----------------------------------------------------|-----------------------------------|
| Control elements                                    |                                   |
| Operating mode                                      |                                   |
| Operating options                                   | Keys and Touch                    |
| Function keys, programmable                         | 18 function keys, 18 with LEDs    |
| Connection for mouse/keyboard/barcode reader        | USB / USB / USB                   |
| Keyboard fonts                                      |                                   |
| Keys with LED                                       | Yes                               |
| freely inscribable membrane keys                    | Yes                               |
| Number of function keys with LEDs                   | 18                                |
| Multi-key operation                                 | Yes                               |
| Number of multi-key operations                      | 2                                 |
| Number of configurable system keys                  | 18                                |
| System keys                                         | Yes                               |
| Numeric/alphabetical input                          | Yes / Yes                         |
| hexadecimal keyboard                                | Yes                               |
| Touch operation                                     |                                   |
| Touch screen                                        | Analog, resistive                 |
| Touch screen (analog/resistive)                     | Yes                               |
| Special operator controls                           |                                   |
| Illuminated pushbutton                              | Yes ; Two illuminated pushbuttons |
| Handwheel                                           | Yes                               |
| Supply voltage                                      |                                   |
| Supply voltage                                      | via connection box                |
| Design of electrical connection, plug-in connection | 1                                 |
| Processor                                           |                                   |
| Processor                                           | ARM, 520 MHz                      |
| Processor type                                      | ARM                               |
| Memory                                              |                                   |
| Type                                                | Flash / RAM                       |
| Usable memory for user data                         | 6 MB usable memory for user data  |
| Main memory                                         |                                   |
| Capacity of main memory, maximum                    | 128 Mbyte                         |
| Time of day                                         |                                   |

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| Clock                         |                                                            |
| Type                          | Hardware clock, battery backup, synchronizable             |
| Interfaces                    |                                                            |
| Interfaces                    | 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                                                    |
| Multi Media Card slot         | 1 MMC/SD card slot                                         |
| Number of parallel interfaces | 0                                                          |
| Industrial Ethernet           |                                                            |
| Industrial Ethernet interface | 1 x Ethernet (RJ45)                                        |
| Protocols                     |                                                            |
| Protocols (Ethernet)          |                                                            |
| TCP/IP                        | Yes                                                        |
| Further protocols             |                                                            |
| 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                                                        |
| Ambient conditions            |                                                            |
| Drop height                   | 1.2 m                                                      |
| Operating temperature         |                                                            |
| Operation                     | 0 °C to +40 °C                                             |
| Storage/transport temperature |                                                            |
| Transport, storage            | -20 °C to +60 °C                                           |
| Relative humidity             |                                                            |
| max. relative humidity        | 80 %                                                       |



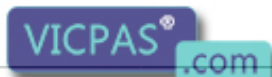
|                                                             |                                                                                           |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Degree and class of protection                              |                                                                                           |
| IP65 enclosure                                              | Yes                                                                                       |
| Standards, approvals, certificates                          |                                                                                           |
| 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 |
| Operating systems                                           |                                                                                           |
| Operating system                                            | Windows CE                                                                                |
| Configuration                                               |                                                                                           |
| 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                                                                                       |
| Configuration software                                      |                                                                                           |
| Configuration tool                                          | WinCC flexible Standard Version 2005 SP1 or higher<br>(to be ordered separately)          |
| 2nd configuration kit                                       | WinCC flexible Standard                                                                   |
| Version                                                     | Version 2005 SP 1                                                                         |
| Configuration tool                                          | WinCC flexible                                                                            |
| Type                                                        | Standard                                                                                  |
| Languages                                                   |                                                                                           |
| Online languages                                            |                                                                                           |
| Number of online/runtime languages                          | 16                                                                                        |
| Languages                                                   |                                                                                           |
| Languages per project                                       | 32                                                                                        |
| Functionality under WinCC flexible                          |                                                                                           |
| Libraries                                                   | Yes                                                                                       |
| Applications/options                                        | Internet Explorer, Sm@rtService, Sm@rtAccess                                              |
| Connection point identification                             | Yes                                                                                       |
| Number of Visual Basic Scripts                              | 50                                                                                        |
| Task planner                                                | Yes                                                                                       |
| Help system                                                 | Yes                                                                                       |

|                                                              |                                    |
|--------------------------------------------------------------|------------------------------------|
| Number of characters per info text                           | 70                                 |
| With alarm logging system (incl. buffer and acknowledgment)  |                                    |
| Number of alarm classes                                      | 32                                 |
| Number of messages                                           | 4000                               |
| Bit messages                                                 | Yes                                |
| Analog messages                                              | Yes                                |
| Number of bit messages                                       | 4000                               |
| Number of analog messages                                    | 4000                               |
| System messages HMI                                          | Yes                                |
| System messages PLC                                          | Yes                                |
| System messages, other (SIMATIC S7, Sinumerik, Simotion,...) | Yes                                |
| Message length (in characters)                               | 80                                 |
| Lines                                                        | 1                                  |
| Number of process values per message                         | 8                                  |
| Acknowledgment groups                                        | 99                                 |
| Message indicator                                            | Yes                                |
| First/last value                                             | Yes                                |
| Recipes                                                      |                                    |
| Recipes                                                      | 300                                |
| Data records per recipe                                      | 500                                |
| Entries per data record                                      | 1000                               |
| Recipe memory                                                | 64 KB integrated Flash, expandable |
| Variables                                                    |                                    |
| Number of variables per device                               | 2048                               |
| Number of variables per screen                               | 200                                |
| Number of variables                                          | 1000                               |
| Initial values                                               | 2048                               |
| Limit values                                                 | Yes                                |
| Multiplexing                                                 | Yes                                |
| Structs                                                      | Yes                                |
| Type Date & Time                                             | 2048                               |
| 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                                                              |
| <b>Image objects</b>                    |                                                                  |
| Text objects                            | 10,000 text elements                                             |
| Fields per image                        | 200                                                              |
| Date/time fields                        | 200                                                              |
| Return                                  | J                                                                |
| Graphics object                         | Bit maps, icons, vector graphics                                 |
| Icons                                   | 1000                                                             |
| <b>Complex image objects</b>            |                                                                  |
| Status/control                          | With SIMATIC S7                                                  |
| dynamic objects                         | Diagrams, bar graphs, sliders, analog display, invisible buttons |
| Number of objects per project           | 1000                                                             |
| Number 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                        | 2048                                                             |
| numerical fields per image              | 200                                                              |
| Password errors                         | 2048                                                             |
| 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                                                              |
| Button status switches per image        | 200                                                              |
| Number of selector switches per project | 200                                                              |

|                                        |                  |
|----------------------------------------|------------------|
| 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              |
| Lists                                  |                  |
| Number of text lists per project       | 500              |
| Number of text lists per image         | 200              |
| 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          | 10000            |
| Message archive                        | Yes              |
| Process value archive                  | Yes              |
| Archiving methods                      |                  |
| Sequential archive                     | Yes              |
| Short-term archive                     | Yes              |
| Memory location                        | Multi Media Card |
| Data storage format                    |                  |
| CSV                                    | Yes              |
| Online evaluation                      |                  |
| Using trend curves                     | Yes              |
| Filters                                |                  |
| cyclic                                 | Yes              |
| Tolerance                              | Yes              |

|                                   |                                                                                                                                                                                                                    |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Change                            | Yes                                                                                                                                                                                                                |
| <b>Security</b>                   |                                                                                                                                                                                                                    |
| Number of user groups             | 50                                                                                                                                                                                                                 |
| Number of user rights             | 32                                                                                                                                                                                                                 |
| Password export/import            | Yes                                                                                                                                                                                                                |
| <b>Logging through printer</b>    |                                                                                                                                                                                                                    |
| Recording/Printing                | Alarms, report (shift report), color print, hardcopy                                                                                                                                                               |
| <b>Transfer (upload/download)</b> |                                                                                                                                                                                                                    |
| Transfer of configuration         | MPI/PROFIBUS DP, USB, Ethernet, automatic transfer recognition                                                                                                                                                     |
| <b>Process coupling</b>           |                                                                                                                                                                                                                    |
| Connection to controller          | S5, S7-200, S7- 300/400, TI 505, 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                                                                                                                                                                                                                |
| Ethernet                          | 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                                                                                                                                                                                                                |
| OMRON (LINK/Multilink)            | Yes                                                                                                                                                                                                                |



|                                         |                         |
|-----------------------------------------|-------------------------|
| Modicon (Modbus)                        | Yes                     |
| GE-Fanuc (SNP)                          | Yes                     |
| <b>Functions</b>                        |                         |
| TAB sequence                            | Yes                     |
| Calculating functions                   | Yes                     |
| Animate                                 | Yes                     |
| <b>Service tools/configuration aids</b> |                         |
| Clean screen                            | Yes                     |
| Touch calibration                       | Yes                     |
| Backup/restore                          | Yes                     |
| Simulation                              | Yes                     |
| Device switchover                       | Yes                     |
| Delta transfer                          | Yes                     |
| <b>I/O / Options</b>                    |                         |
| I/O devices                             | Printer, barcode reader |
| Multi Media Card                        | Yes                     |
| SD card                                 | Yes                     |
| USB memory                              | Yes                     |
| Additional software components loadable | Yes                     |
| <b>Mechanics/material</b>               |                         |
| Type of housing (front)                 | Plastic                 |
| <b>Dimensions</b>                       |                         |
| Housing diameter/depth (mm)             | Dia 290 mm / D 103 mm   |
| <b>Weight</b>                           |                         |
| Weight                                  | 1.7 kg                  |
| <b>other</b>                            |                         |
| free hotline                            | Yes                     |
| Warranty period                         | 1 a                     |
| Status                                  | Feb 6, 2012             |