

# SIEMENS

## Product data sheet

**6AV3503-1DB10**

**OP 3 OPERATOR PANEL WITH CABLE FOR CONNECTION TO SIMATIC S7, SER. CABLE FOR CONFIGURING AND CABLE FOR POWER SUPPLY DISCONTINUED AS OF 10-1-2007. SUCCESSOR: OP 73**

|                             |  |
|-----------------------------|--|
| Supply voltage              |  |
| Supply voltage              | 24 V DC  |
| permissible range           | +18 V to +30 V DC  |
| Type of voltage             | DC   |
| Rated current               | 0.07 A   |
| UPS connectable (serial)    | No   |
| Backup battery              |  |
| Backup battery              | No   |
| minimum backup duration     | 0 a  |
| Memory                      |  |
| Type                        | Flash / RAM  |
| Usable memory for user data | 128 KB usable memory for user data                               |
| Time of day                 |  |
| Clock                       |  |
| Type                        | Software clock, no battery backup                                |
| Configuration               |  |
| Configuration tool          | ProTool / Lite Version 2.51 or higher (to be ordered separately) |
| 1st configuration kit       | ProTool / Lite   |
| Version                     | Version 2.51   |
| Configuration tool          | ProTool  |
| Type                        | Lite   |
| Display                     |  |
| Display type                | Schwarz/Weiss  |
| Type                        | Lines  |
| Line display                | LC display   |
| Number of lines, max.       | 2  |
| Characters per line (max.)  | 20   |

|   |                     |
|---|---------------------|
| Character size  | 5 mm                |
| graphics-enabled  | No                  |
| Number of greyscale   | 0                   |
| Color type  | Black/white         |
| [nicht versorgt: TAK_ABT210_001_000]                                  |                     |
| MTBF backlighting (at 25 °C)  | about 200,000 hours |
| Expansions for operator control of the process                        |                     |
| DC 24 V direct key module/outputs                                     | No                  |
| CPI module  | No                  |
| Operating mode  |                     |
| Operating options   | Keys                |
| Function keys, programmable   | 5 function keys     |
| Connection for mouse/keyboard/barcode reader                          | - / - / -           |
| external mouse  | -                   |
| [nicht versorgt: TAK_ABT224_001_000]                                  |                     |
| external keyboard   | -                   |
| [nicht versorgt: TAK_ABT249_001_000]                                  |                     |
| Touch screen  | No                  |
| Design as touch screen  | No                  |
| freely inscribable membrane keys                                      | No                  |
| Numeric/alphabetical input  | Yes / No            |
| hexadecimal keyboard  | No                  |
| Multi-key operation   | No                  |
| SW interfaces   | No                  |
| [nicht versorgt: TAK_ABT256_001_000]                                  |                     |
| Connection for barcode reader   | -                   |
| Ambient conditions  |                     |
| Mounting position   | vertical            |
| maximum permissible angle of inclination without external ventilation | +/- 180 °           |
| max. relative humidity (in %)   | 85 %                |
| Temperature   |                     |
| Operation (vertical installation)                                     | 0 °C to +60 °C      |
| Operation (max. tilt angle)   | 0 °C to +60 °C      |
| Transport, storage  | -20 °C to +60 °C    |

|   |  |
|---|--|
| Ambient temperature during storage, minimum | -20 °C   |
| Ambient temperature during storage, maximal | 60 °C  |
| Degree of protection                        |  |
| Front                                       | IP65   |
| IP (at the front)                           | IP65   |
| Rear  | IP20   |
| IP (rear)                                   | IP20   |
| Certifications & standards                  |  |
| Certifications                              | CE, GL, DNV, LRS, PRS, FM Class I Div. 2, UL, CSA, cULus |
| Type of output                              |  |
| LED colors                                  | None   |
| Interfaces                                  |  |
| Interfaces                                  | 1 x RS232, 1 x RS485 (max. 1.5 Mbit/s)                   |
| Number of interfaces/parallel               | 0  |
| Number of interfaces/according to RS 485    | 1  |
| Transmission rate, max.                     | 1.5 Mbit/s   |
| PC card slot                                | No   |
| CF card slot                                | No   |
| USB   | No   |
| Ethernet                                    | No   |
| Special interfaces                          | No   |
| Operating systems                           |  |
| Operating system                            | RMOS   |
| Product function                            |  |
| Message indicator                           | Yes  |
| Message system                              | No   |
| Process value display (output)              | No   |
| Process value default (input)               | No   |
| Recipe administration                       | No   |
| Customer-specific configuration             | No   |
| Additional software components loadable     | No   |
| other                                       |  |
| free hotline                                | Yes  |
| Warranty period                             | 1 a  |

|   |                    |
|---|--------------------|
| Processor                                   |                    |
| Processor                                   | X86                |
| Processor type                              | X86                |
| Drives                                      |                    |
| Design of drive/storage medium, diskette    | No                 |
| Design of drive/storage medium, CD-ROM      | No                 |
| Design of drive/storage medium, hard disk   | No                 |
| Functionality under ProTool                 |                    |
| Alarm clock                                 | No                 |
| Clean screen                                | No                 |
| Number of levels for password protection    | 10                 |
| Help system                                 | No                 |
| Number of info. texts                       | 0                  |
| Memory requirement for first unit           | 10 byte            |
| Memory requirement for each additional unit | 10 byte            |
| Number of tooltips                          | 0                  |
| Memory requirement for first unit           | 10 byte            |
| Memory requirement for each additional unit | 10 byte            |
| Status/control                              | With SIMATIC S5/S7 |
| Message system                              |                    |
| Number of operating messages                | 499                |
| Memory requirement for first unit           | 95 byte            |
| Memory requirement for each additional unit | 10 byte            |
| Number of fault messages                    | 0                  |
| Memory requirement for first unit           | 10 byte            |
| Memory requirement for each additional unit | 10 byte            |
| System messages                             | Yes                |
| Message length (lines x characters)         | 2 x 20             |
| Number of process values in messages        | 8                  |
| Number of acknowledgement groups            | 0                  |
| Message indicator                           | No                 |
| Acoustic feedback                           | No                 |
| First/last value                            | Yes                |
| Message buffer                              | No                 |
| Recipes                                     |                    |

|   |             |
|---|-------------|
| Memory requirement for first unit             | 10 byte     |
| Memory requirement for each additional unit   | 10 byte     |
| Number of process images                      |             |
| Number of process images                      | 40          |
| Memory requirement for first unit             | 12704 byte  |
| Memory requirement for each additional unit   | 102 byte    |
| Number of variables                           | 1024        |
| Number of variables of Date & Time type       | 0           |
| Number of variables of Internal Variable type | 1024        |
| Number of initial values                      | 1024        |
| Limit values                                  | Yes         |
| Multiplexing                                  | No          |
| Image elements                                |             |
| Number of fields per screen                   | 20          |
| Number of variables per screen                | 792         |
| Permanent window/default                      | N           |
| Image selection via PLC                       | Yes         |
| Index of screen context                       | Yes         |
| Start screen configurable                     | Yes         |
| Image number in the PLC                       | Yes         |
| Return  | Yes         |
| Graphics object                               | Semigraphic |
| Number of icons                               | 0           |
| Memory requirement for first unit             | 0 byte      |
| Memory requirement for each additional unit   | 0 byte      |
| Number of screen filling icons                | 0           |
| Memory requirement for first unit             | 0 byte      |
| Memory requirement for each additional unit   | 0 byte      |
| Number of objects per project                 | 0           |
| Number per image                              | 0           |
| Memory requirement for first unit             | 0 byte      |
| Memory requirement for each additional unit   | 0 byte      |
| Number of curves per diagram                  | 0           |
| Memory requirement for first unit             | 0 byte      |
| Memory requirement for each additional unit   | 0 byte      |

|   |              |
|---|--------------|
| Write direction                             | None         |
| Online operation of trends trigger          | Not possible |
| Limit value lines                           | None         |
| Number of bars per chart                    | No           |
| Direction                                   | 0            |
| Limit value lines                           | No           |
| Number of alphanumerical fields             | No           |
| Number of alphanumerical fields per screen  | 1024         |
| Memory requirement for first unit           | 792          |
| Memory requirement for each additional unit | 122 byte     |
| Number of numerical fields                  | 82 byte      |
| Number of numerical fields per screen       | 1024         |
| Memory requirement for first unit           | 792          |
| Memory requirement for each additional unit | 122 byte     |
| Number of date and time fields              | 82 byte      |
| Memory requirement for first unit           | 1024         |
| Memory requirement for each additional unit | 122 byte     |
| Number of password fields                   | 82 byte      |
| Memory requirement for first unit           | 0            |
| Memory requirement for each additional unit | 0 byte       |
| Number of slides per image                  | 0 byte       |
| Memory requirement for first unit           | 0            |
| Memory requirement for each additional unit | 0 byte       |
| Number of analog indicators per image       | 0            |
| Memory requirement for first unit           | 0 byte       |
| Memory requirement for each additional unit | 0 byte       |
| Number of visible switches per project      | 0            |
| Number of visible switches per screen       | 0            |
| Memory requirement for first unit           | 0 byte       |
| Memory requirement for each additional unit | 0 byte       |
| Number of invisible switches per screen     | 0            |
| Memory requirement for first unit           | 0 byte       |
| Memory requirement for each additional unit | 0 byte       |
| Number of status switches per project       | 0            |

|   |              |
|---|--------------|
| Number of buttons for state switches per screen | 0            |
| Memory requirement for first unit               | 0 byte       |
| Memory requirement for each additional unit     | 0 byte       |
| Number of selector switches per project         | 0            |
| Number of selector switches per screen          | 0            |
| Memory requirement for first unit               | 0 byte       |
| Memory requirement for each additional unit     | 0 byte       |
| Number of decade switches per project           | 0            |
| Number of decade switches per screen            | 0            |
| Memory requirement for first unit               | 0 byte       |
| Memory requirement for each additional unit     | 0 byte       |
| Number of signal lamps per project              | 0            |
| Number of indicator lights per screen           | 0            |
| Memory requirement for first unit               | 0 byte       |
| Memory requirement for each additional unit     | 0 byte       |
| Lists   |              |
| Number of text lists per project                | 1000         |
| Number of text lists per image                  | 0            |
| Memory requirement for first unit               | 0 byte       |
| Memory requirement for each additional unit     | 0 byte       |
| Number of entries per project                   | 0            |
| Memory requirement for first unit               | 0 byte       |
| Memory requirement for each additional unit     | 0 byte       |
| Number of graphics lists per project, max.      | 0            |
| Number of graphic lists per image, max.         | 0            |
| Memory requirement for first unit               | 0 byte       |
| Memory requirement for each additional unit     | 0 byte       |
| Number of entries per project                   | 0            |
| Memory requirement for first unit               | 0 byte       |
| Memory requirement for each additional unit     | 0 byte       |
| Libraries                                       | No           |
| Recording                                       |              |
| Recording/Printing                              | Not possible |
| Character sets                                  |              |
| Keyboard character sets                         | D/E/F/I/S    |

## Languages

|   |  |
|---|--|
| Number of online languages                  | 3  |
| Number of online languages per project      | 5  |
| Memory requirement for first unit           | 5326 byte  |
| Memory requirement for each additional unit | 5688 byte  |
| Configuration languages                     | D, GB, F, I, E   |
| Transfer (upload/download)                  |  |
| Transfer of configuration                   | MPI/PROFIBUS DP (where available), serial              |
| Process coupling                            |  |
| Connection to controller                    | S7-200, S7- 300/400 see section on "System interfaces" |
| S5  | No   |
| serial                                      | No   |
| PROFIBUS DP                                 | No   |
| S7-200                                      | Yes  |
| PPI (point-to-point)                        | Yes  |
| PPI network                                 | Yes  |
| MPI   | Yes  |
| PROFIBUS DP                                 | No   |
| S7-300/400                                  | Yes  |
| MPI   | Yes  |
| PROFIBUS DP                                 | No   |
| PROFINET IO                                 | No   |
| TI 505                                      | No   |
| Point-to-point                              | No   |
| Network                                     | No   |
| Allen Bradley (DF1)                         | No   |
| Point-to-point                              | No   |
| Network                                     | No   |
| Allen Bradley (DH485)                       | No   |
| Point-to-point                              | No   |
| Network                                     | No   |
| Mitsubishi (FX)                             | No   |
| Point-to-point                              | No   |
| Network                                     | No   |



|  |                                     |
|--|-------------------------------------|
| Telemecanique (ADJUST)                       | No                                  |
| Point-to-point                               | No                                  |
| Network                                      | No                                  |
| OMRON (LINK/Multilink)                       | No                                  |
| Point-to-point                               | No                                  |
| Network                                      | No                                  |
| Modicon (Modbus)                             | No                                  |
| Point-to-point                               | No                                  |
| Network                                      | No                                  |
| Functions                                    |                                     |
| Key repeat                                   | No                                  |
| TAB sequence                                 | No                                  |
| Calculating functions                        | Yes                                 |
| Animate                                      | No                                  |
| Menu tree editor                             | No                                  |
| Unit switchover                              | No                                  |
| Booting via external memory                  | No                                  |
| Service tools/configuration aids             |                                     |
| Touch calibration                            | No                                  |
| Backup/restore                               | Yes                                 |
| Simulation                                   | No                                  |
| Language tool                                | No                                  |
| System messages Edit                         | No                                  |
| Device switchover                            | No                                  |
| Delta transfer                               | Yes                                 |
| Monitoring the battery, memory,...           | No                                  |
| Trace (operation archive)                    | No                                  |
| Mechanics                                    |                                     |
| Type of housing (front)                      | Plastic                             |
| Mounting technology                          | Terminal technology                 |
| Dimensions                                   |                                     |
| Front of enclosure (W x H)                   | 148 mm x 76 mm                      |
| Mounting cutout/Device depth (W x H/D) in mm | 138 mm x 68 mm / 25 mm device depth |
| Dimensions and weight                        |                                     |
| Weight                                       |                                     |

Weight

0.25 kg

Status

Apr 26, 2010