SIEMENS

Data sheet

6AV2124-0GC10-0SA0

Starter package TP700 Outdoor incl. Outdoor SD Card, touch pen system and engineering system, WinCC Comfort



| General information | | |
|---|---|--|
| Product type designation | TP700 Outdoor | |
| Display | | |
| Design of display | TFT, bonded, daylight-readable | |
| Screen diagonal | 7 in | |
| Display width | 152.4 mm | |
| Display height | 91.4 mm | |
| Number of colors | 16 777 216 | |
| Resolution (pixels) | | |
| Horizontal image resolution | 800 pixel | |
| Vertical image resolution | 480 pixel | |
| Backlighting | | |
| MTBF backlighting (at 25 °C) | 50 000 h | |
| Backlight dimmable | Yes; LED, can be dimmed manually or automatically | |
| Control elements | | |
| Keyboard fonts | | |
| Function keys | | |
| Number of function keys | 0 | |
| Number of function keys with LEDs | 0 | |
| Keys with LED | No | |
| System keys | No | |
| Numeric keyboard | Yes; Onscreen keyboard | |
| alphanumeric keyboard | Yes; Onscreen keyboard | |
| Touch operation | | |
| Design as touch screen | Yes; Analog-resistive | |
| Expansions for operator control of the process | | |
| DP direct LEDs (LEDs as S7 output I/O) | | |
| — F1Fx | 0 | |
| Direct keys (keys as S7 input I/O) | | |
| — F1Fx | 0 | |
| Direct keys (touch buttons as S7 input I/O) | 32 | |
| Installation type/mounting | | |
| Mounting position | vertical | |
| Mounting in portrait format possible | Yes | |
| Mounting in landscape format possible | Yes | |
| maximum permissible angle of inclination without external ventilation | 35° | |
| Supply voltage | | |
| Type of supply voltage | DC | |

| Detect value (DC) | 24.1/ |
|--|--|
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |
| Input current | 0.7.4 |
| Current consumption (rated value) | 0.7 A |
| Starting current inrush I²t | 0.5 A ² ·s |
| Power | |
| Active power input, typ. | 17 W |
| Processor | |
| Processor type | X86 |
| Memory | |
| Flash | Yes |
| RAM | Yes |
| Memory available for user data | 12 Mbyte |
| Type of output | |
| Info LED | No |
| Power LED | No |
| Error LED | No |
| Acoustics | |
| Buzzer | No |
| Speaker | Yes |
| Time of day | |
| Clock | |
| Hardware clock (real-time) | Yes |
| Software clock | No |
| • retentive | Yes; Back-up duration typically 6 weeks |
| synchronizable | Yes |
| Interfaces | |
| Number of industrial Ethernet interfaces | 2 |
| Number of RS 485 interfaces | 1; RS 422 / 485 combined |
| Number of RS 422 interfaces | 1 |
| | |
| Number of RS 232 interfaces | 0 |
| Number of USB interfaces | 2; USB 2.0 |
| Number of USB interfaces • USB Mini B | 2; USB 2.0 1; 5-pole |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) | 2; USB 2.0 1; 5-pole 0 |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces | 2; USB 2.0 1; 5-pole 0 |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces | 2; USB 2.0 1; 5-pole 0 0 |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots | 2; USB 2.0 1; 5-pole 0 0 0 2 |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces | 2; USB 2.0 1; 5-pole 0 0 |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet | 2; USB 2.0 1; 5-pole 0 0 0 2 No |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED | 2; USB 2.0 1; 5-pole 0 0 0 2 No |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch | 2; USB 2.0 1; 5-pole 0 0 0 2 No |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols | 2; USB 2.0 1; 5-pole 0 0 0 2 No |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET | 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO | 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT | 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes; WinCC V13 SP1 HSP or higher |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS | 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes Yes; WinCC V13 SP1 HSP or higher Yes |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP | 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes; WinCC V13 SP1 HSP or higher Yes Yes |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI | 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes Yes; WinCC V13 SP1 HSP or higher Yes |
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| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP | 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes; WinCC V13 SP1 HSP or higher Yes Yes Yes Yes Yes |
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| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP | 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 No Yes Yes Yes; WinCC V13 SP1 HSP or higher Yes |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP | 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes; WinCC V13 SP1 HSP or higher Yes |
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| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics | 2; USB 2.0 1; 5-pole 0 0 0 0 2 No 2 2 2 Yes |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP | 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes; WinCC V13 SP1 HSP or higher Yes |
| Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics | 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |

| • XML | No |
|---|---|
| • CSS | Yes |
| Active X | No |
| JavaScript | Yes |
| • Java VM | No |
| Redundancy mode | |
| Media redundancy | |
| — MRP | Yes; WinCC V13 SP1 HSP or higher |
| Further protocols | |
| • CAN | No |
| MODBUS | Yes |
| EMC | |
| Emission of radio interference acc. to EN 55 011 | |
| Limit class A, for use in industrial areas | Yes |
| Limit class B, for use in residential areas | No |
| Degree and class of protection | |
| IP (at the front) | IP66 |
| IP (rear) | IP20 |
| NEMA (front) | |
| Enclosure Type 4 at the front | Yes |
| Enclosure Type 4x at the front | Yes |
| Standards, approvals, certificates | |
| CE mark | Yes |
| cULus | Yes |
| | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval Use in hazardous areas | 165 |
| | Voc. For inscription on device rating plate |
| ATEX Zone 2ATEX Zone 22 | Yes; For inscription on device rating plate |
| | Yes; For inscription on device rating plate |
| • IECEx Zone 2 | Yes; For inscription on device rating plate |
| • IECEx Zone 22 | Yes; For inscription on device rating plate |
| • cULus Class I Zone 1 | No |
| • cULus Class I Zone 2, Division 2 | Yes; For inscription on device rating plate |
| • FM Class I Division 2 | Yes; For inscription on device rating plate |
| Marine approval | N/ |
| Germanischer Lloyd (GL) | Yes |
| American Bureau of Shipping (ABS) | Yes |
| Bureau Veritas (BV) | Yes; Available soon |
| Det Norske Veritas (DNV) | Yes |
| Korean Register of Shipping (KRS) Newdo Positors of Shipping (KRS) | No; Available soon |
| Lloyds Register of Shipping (LRS) Nigram (Gill Kunksi (Olana NK)) | Yes |
| Nippon Kaiji Kyokai (Class NK) Nippon Kaiji Kyokai (Class NK) | Yes; Available soon |
| Polski Rejestr Statkow (PRS) | No A TILL |
| Chinese Classification Society (CCS) | Yes; Available soon |
| Compass working clearance | 5 m |
| Ambient conditions | |
| Suited for indoor use | Yes |
| Suited for outdoor use | Yes; Powder-coated, UV resistant |
| Ambient temperature during operation | |
| Operation (vertical installation) | |
| For vertical installation, min. | -30 °C |
| — For vertical installation, max. | 60 °C; (55 °C, see entry ID: 64847814) |
| Operation (max. tilt angle) | |
| At maximum tilt angle, min. | -30 °C |
| — At maximum tilt angle, max. | 50 °C |
| Operation (vertical installation, portrait format) | |
| For vertical installation, min. | -30 °C |
| — For vertical installation, max. | 50 °C |
| Operation (max. tilt angle, portrait format) | |
| | |

| — At maximum tilt angle, min. | -30 °C |
|--|--|
| — At maximum tilt angle, min. — At maximum tilt angle, max. | 45 °C |
| All maximum tilt angle, max. Ambient temperature during storage/transportation | |
| min. | -30 °C |
| | 70 °C |
| Max. Altitude during eneration relating to see level. | 70 C |
| Altitude during operation relating to sea level | 2 000 m. Dananding on the apprehing temperature |
| Installation altitude above sea level, max. Polatica by moidify: | 3 000 m; Depending on the operating temperature |
| Relative humidity | 00.0/ |
| Operation, max. | 90 %; no condensation |
| Operating systems | |
| proprietary | No |
| pre-installed operating system | |
| Windows CE | Yes |
| configuration / header | |
| Message indicator | Yes |
| Alarm system (incl. buffer and acknowledgment) | Yes |
| Process value display (output) | Yes |
| Process value default (input) possible | Yes |
| Recipe management | Yes |
| Configuration software | |
| STEP 7 Basic (TIA Portal) | No |
| STEP 7 Professional (TIA Portal) | No |
| WinCC flexible Compact | No |
| WinCC flexible Standard | No |
| WinCC flexible Advanced | No |
| WinCC Basic (TIA Portal) | No |
| WinCC Dasic (TAT ortal) WinCC Comfort (TIA Portal) | Yes; WinCC V13 SP1 Update 7 + HSP or higher |
| Wincc common (TIA Portal) WinCC Advanced (TIA Portal) | Yes; WinCC V13 SP1 Update 7 + HSP or higher |
| | |
| WinCC Professional (TIA Portal) | Yes; WinCC V13 SP1 Update 7 + HSP or higher |
| Languages | |
| Online languages | |
| | |
| Number of online/runtime languages | 32 |
| Project languages | |
| Project languages • Languages per project | 32 |
| Project languages | |
| Project languages • Languages per project | |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) | 32 |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries | 32 |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options | 32 Yes |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser | 32 Yes Yes |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word | 32 Yes Yes Yes |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word • Pocket Excel | Yes Yes Yes Yes Yes |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer | Yes Yes Yes Yes Yes Yes Yes |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player | Yes Yes Yes Yes Yes Yes Yes Yes Yes |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player • SIMATIC WinCC Sm@rtServer | Yes |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player • SIMATIC WinCC Sm@rtServer • SIMATIC WinCC Audit | Yes |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player • SIMATIC WinCC Sm@rtServer • SIMATIC WinCC Audit Number of Visual Basic Scripts | Yes |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player • SIMATIC WinCC Sm@rtServer • SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner | Yes |
| Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled | Yes |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player • SIMATIC WinCC Sm@rtServer • SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner • time-controlled | Yes |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player • SIMATIC WinCC Sm@rtServer • SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Message system • Number of alarm classes | Yes |
| Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages | 32 Yes |
| Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages — Number of bit messages | Yes |
| Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages Number of bit messages Analog messages | Yes Yes Yes Yes Yes Yes Yes Yes |
| Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled task-controlled Message system Number of alarm classes Bit messages Number of bit messages Analog messages Number of analog messages | 32 Yes Yes |
| Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages Number of bit messages Analog messages Number of analog messages S7 alarm number procedure | Yes Yes Yes Yes Yes Yes Yes Yes |
| Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled task-controlled Message system Number of alarm classes Bit messages Number of bit messages Analog messages Analog messages Number of analog messages S7 alarm number procedure System messages HMI | 32 Yes |
| Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled task-controlled Message system Number of alarm classes Bit messages Number of bit messages Analog messages Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, | Yes Yes Yes Yes Yes Yes Yes Yes |
| Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player • SIMATIC WinCC Sm@rtServer • SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner • time-controlled • task-controlled • task-controlled Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages — Number of analog messages • S7 alarm number procedure • System messages HMI • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) | 32 Yes Yes |
| Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled task-controlled Message system Number of alarm classes Bit messages Number of bit messages Analog messages Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, | 32 Yes |

| Acknowledgment groups | Yes |
|--|---------------------------|
| Message indicator | Yes |
| Recipe management | |
| Number of recipes | 300 |
| Data records per recipe | 500 |
| Entries per data record | 1 000 |
| Size of internal recipe memory | 2 Mbyte |
| Recipe memory expandable | Yes |
| Variables | 165 |
| Number of variables per device | 2 048 |
| Number of variables per screen | 400 |
| Limit values | Yes |
| Multiplexing | Yes |
| Structures | Yes |
| | Yes |
| • Arrays | 165 |
| Images • Number of configurable images | 500 |
| Number of configurable images Permanent window/default | Yes |
| | Yes |
| Global image Image selection by PLC | |
| Image selection by PLC Image number in the PLC | Yes |
| Image number in the PLC Image chicate | Yes |
| Image objects | 400 |
| Number of objects per image Toyt fields | 400 Yes |
| Text fields | Yes |
| • I/O fields | Yes |
| Graphic I/O fields (graphics list) | Yes |
| Symbolic I/O fields (text list) | Yes |
| Date/time fields | Yes |
| • Switches | Yes |
| Buttons | Yes |
| Graphic display | Yes |
| • Icons | Yes |
| Geometric objects | Yes |
| Complex image objects | |
| Number of complex objects per screen | 20 |
| Alarm view | Yes |
| Trend view | Yes |
| • User view | Yes |
| Status/control | Yes |
| Sm@rtClient view | Yes |
| Recipe view | Yes |
| f(x) trend view | Yes |
| System diagnostics view | Yes |
| Media Player | Yes |
| HTML browser | Yes |
| PDF display | Yes |
| IP camera display | Yes; Webcam type see FAQs |
| Bar graphs | Yes |
| Sliders | Yes |
| Pointer instruments | Yes |
| Analog/digital clock | Yes |
| Lists | |
| | |
| Number of text lists per project | 500 |
| Number of text lists per projectNumber of entries per text list | 500 500 |
| | |
| Number of entries per text list | 500 |
| Number of entries per text listNumber of graphics lists per project | 500 500 |
| Number of entries per text list Number of graphics lists per project Number of entries per graphics list | 500 500 |
| Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving | 500 500 500 |
| Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device | 500 500 500 |

| Process value archive | Yes |
|---|---|
| Archiving methods | |
| Sequential archive | Yes |
| Short-term archive | Yes |
| Memory location | |
| — Memory card | Yes |
| — USB memory | Yes |
| — Ethernet | Yes |
| Data storage format | |
| — CSV | Yes |
| — TXT | Yes |
| — RDB | Yes |
| Security | |
| Number of user groups | 50 |
| Number of user rights | 32 |
| Number of users | 50 |
| Password export/import | Yes |
| SIMATIC Logon | Yes |
| Logging through printer | |
| • Alarms | Yes |
| Report (shift log) | Yes |
| Hardcopy | Yes |
| Electronic print to file | Yes; PDF, HTML |
| Character sets | TOS, I DI , ITINIL |
| Keyboard fonts | |
| — US English | Yes |
| Transfer (upload/download) | 163 |
| MPI/PROFIBUS DP | Yes |
| USB | Yes |
| • Ethernet | Yes |
| | |
| a uning autornal ataraga madium | Vac: Backun/rooters |
| using external storage medium | Yes; Backup/restore |
| Process coupling | |
| Process coupling ● S7-1200 | Yes |
| Process coupling | Yes Yes |
| Process coupling | Yes Yes Yes |
| Process coupling • S7-1200 • S7-1500 • S7-200 • S7-300/400 | Yes Yes Yes Yes |
| Process coupling • \$7-1200 • \$7-1500 • \$7-200 • \$7-300/400 • LOGO! | Yes Yes Yes Yes Yes Yes |
| Process coupling • \$7-1200 • \$7-1500 • \$7-200 • \$7-300/400 • LOGO! • WinAC | Yes Yes Yes Yes Yes Yes Yes Yes |
| Process coupling • S7-1200 • S7-1500 • S7-200 • S7-300/400 • LOGO! • WinAC • SINUMERIK | Yes |
| Process coupling • \$7-1200 • \$7-1500 • \$7-200 • \$7-300/400 • LOGO! • WinAC • SINUMERIK • SIMOTION | Yes |
| Process coupling • S7-1200 • S7-1500 • S7-200 • S7-300/400 • LOGO! • WinAC • SINUMERIK • SIMOTION • Allen Bradley (EtherNet/IP) | Yes |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) | Yes |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) | Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) | Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus) | Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) | Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus) | Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus) OPC UA Client | Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus) OPC UA Client OPC UA Server | Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server | Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually | Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically | Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore automatically Simulation Device switchover | Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore automatically Simulation | Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Printer | Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card | Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |
| Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Printer | Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye |

| SIMATIC HMI CF memory card Compact Flash Card | No |
|---|---|
| USB memory | Yes; e.g. USB RFID reader, see FAQ entry ID: 99808171 |
| SIMATIC IPC USB Flashdrive (USB stick) | Yes |
| SIMATIC HMI USB stick | Yes |
| Network camera | Yes; See FAQ Entry ID: 62383298 and entry ID: 65647473 |
| Accessories | |
| Expansion module | Optional e.g. USB RFID reader, see FAQ entry ID: 99808171 |
| Further accessories are available | Yes; incl. 1x outdoor SD system card, 1x touch pen system for resistive and capacitive touch displays, and current engineering system WinCC Comfort |
| Mechanics/material | |
| Enclosure material (front) | |
| Plastic | No |
| Aluminum | Yes; Powder-coated, UV resistant |
| Stainless steel | No |
| Dimensions | |
| Width of the housing front | 214 mm |
| Height of housing front | 158 mm |
| Mounting cutout, width | 197 mm |
| Mounting cutout, height | 141 mm |
| Overall depth | 67 mm |
| Weights | |
| Weight (without packaging) | 1.8 kg |
| Weight (with packaging) | 2.1 kg |
| Other | |
| Note: | Power, quantity structure and performance correspond to a standard 7" Comfort Panel |

10/7/2021

last modified: