## SIEMENS

## Data sheet

## 6AV2124-0GC01-0AX0



SIMATIC HMI TP700 Comfort, Comfort Panel, touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable from WinCC Comfort V11

| General information   |                        |
|---|------------------------|
| Product type designation  | TP700 Comfort          |
| Display   |                        |
| Design of display   | TFT                    |
| Screen diagonal   | 7 in                   |
| Display width   | 152.4 mm               |
| Display height  | 91.4 mm                |
| Number of colors  | 16 777 216             |
| Resolution (pixels)   |                        |
| <ul> <li>Horizontal image resolution</li> </ul>                       | 800 pixel              |
| <ul> <li>Vertical image resolution</li> </ul>                         | 480 pixel              |
| Backlighting  |                        |
| <ul> <li>MTBF backlighting (at 25 °C)</li> </ul>                      | 80 000 h               |
| <ul> <li>Backlight dimmable</li> </ul>                                | Yes; 0-100 %           |
| Control elements  |                        |
| Keyboard fonts  |                        |
| <ul> <li>Function keys</li> </ul>                                     |                        |
| <ul> <li>— Number of function keys</li> </ul>                         | 0                      |
| <ul> <li>— Number of function keys with LEDs</li> </ul>               | 0                      |
| <ul> <li>Keys with LED</li> </ul>                                     | No                     |
| <ul> <li>System keys</li> </ul>                                       | No                     |
| <ul> <li>Numeric keyboard</li> </ul>                                  | Yes; Onscreen keyboard |
| <ul> <li>alphanumeric keyboard</li> </ul>                             | Yes; Onscreen keyboard |
| Touch operation   |                        |
| Design as touch screen  | Yes; Analog-resistive  |
| Expansions for operator control of the process                        |                        |
| <ul> <li>DP direct LEDs (LEDs as S7 output I/O)</li> </ul>            |                        |
| — F1Fx  | 0                      |
| <ul> <li>Direct keys (keys as S7 input I/O)</li> </ul>                |                        |
| — F1Fx  | 0                      |
| <ul> <li>Direct keys (touch buttons as S7 input I/O)</li> </ul>       | 32                     |
| Installation type/mounting  |                        |
| Mounting position   | vertical               |
| Wall mounting/direct mounting   | No                     |
| 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                                      |
|--|---|
| Type of supply voltage                               | 24 V                                    |
| Rated value (DC) permissible range, lower limit (DC) | 24 V<br>19.2 V                          |
| permissible range, upper limit (DC)                  | 19.2 V<br>28.8 V                        |
| Input current  |   |
| Current consumption (rated value)                    | 0.5 A                                   |
| Starting current inrush I <sup>2</sup> t             | 0.5 A <sup>2</sup> ·s                   |
|  | 0.5 A 'S                                |
| Power  | 40.101                                  |
| Active power input, typ.                             | 12 W                                    |
| Processor  |   |
| Processor type                                       | X86                                     |
| Memory   | N/                                      |
| Flash  | Yes                                     |
| RAM Memory available for user data                   | Yes 12 Mbute                            |
|  | 12 Mbyte                                |
| Type of output                                       | Na                                      |
| Info LED   | No                                      |
| Power LED  | No                                      |
| Error LED<br>Acoustics                               | No                                      |
| Buzzer   | No                                      |
| Speaker  | Yes                                     |
| Time of day  | 165                                     |
| Clock  |   |
| Hardware clock (real-time)                           | Yes                                     |
| Software clock (real-time)                           | Yes                                     |
| retentive  | Yes; Back-up duration typically 6 weeks |
| synchronizable                                       | Yes                                     |
| Interfaces   |   |
| Number of industrial Ethernet interfaces             | 1; 2 ports (switch)                     |
| Number of RS 485 interfaces                          | 1; RS 422 / 485 combined                |
| Number of RS 422 interfaces                          | 0; together with RS 485                 |
| Number of RS 232 interfaces                          | 0                                       |
| Number of USB interfaces                             | 2; USB 2.0                              |
| USB Mini B   | 1; 5-pole                               |
| Number of 20 mA interfaces (TTY)                     | 0                                       |
| Number of parallel interfaces                        | 0                                       |
| Number of other interfaces                           | 0                                       |
| Number of SD card slots                              | 2                                       |
| With software interfaces                             | No                                      |
| Industrial Ethernet                                  |   |
| <ul> <li>Industrial Ethernet status LED</li> </ul>   | 2                                       |
| Number of ports of the integrated switch             | 2                                       |
| Protocols  |   |
| PROFINET   | Yes                                     |
| Supports protocol for PROFINET IO                    | Yes                                     |
| IRT  | Yes; As of WinCC V12                    |
| PROFIBUS   | Yes                                     |
| EtherNet/IP  | Yes                                     |
|  | Yes                                     |
| Protocols (Ethernet)                                 | N/                                      |
| • TCP/IP   | Yes                                     |
|  | Yes                                     |
| SNMP     DCP   | Yes                                     |
|  | Voo                                     |
|  | Yes                                     |
| • LLDP   | Yes<br>Yes                              |
| LLDP WEB characteristics                             | Yes                                     |
| • LLDP   |   |

| • HTML   | Yes  |
|--|--|
| • XML  | Yes  |
| • CSS  | Yes  |
| Active X   | Yes  |
| <ul> <li>JavaScript</li> </ul>   | Yes  |
| • Java VM  | No   |
| Redundancy mode  |  |
| Media redundancy   |  |
| — MRP  | Yes; As of WinCC V12   |
| Further protocols  |  |
| • CAN  | No   |
| MODBUS   | Yes  |
| Interrupts/diagnostics/status information  |  |
| Diagnoses  |  |
| Diagnostic information readable  | Yes; S7 controller   |
| EMC  |  |
| Emission of radio interference acc. to EN 55 011   |  |
| Limit class A, for use in industrial areas   | Yes  |
| Limit class A, for use in industrial areas     Limit class B, for use in residential areas   | No   |
| Degree and class of protection   |  |
|  | IDEE   |
| IP (at the front)  | IP65   |
|  | IP20   |
| NEMA (front)   |  |
| • Enclosure Type 4 at the front  | Yes  |
| <ul> <li>Enclosure Type 4x at the front</li> </ul>   | Yes  |
| Standards, approvals, certificates   |  |
| CE mark  | Yes  |
| cULus  | Yes  |
| RCM (formerly C-TICK)  | Yes  |
| KC approval  | Yes  |
| KC approval  | Tes  |
| Use in hazardous areas   | 165  |
|  | Yes  |
| Use in hazardous areas   |  |
| Use in hazardous areas<br>• ATEX Zone 2  | Yes  |
| Use in hazardous areas<br>• ATEX Zone 2<br>• ATEX Zone 22  | Yes<br>Yes   |
| Use in hazardous areas<br>• ATEX Zone 2<br>• ATEX Zone 22<br>• IECEx Zone 2  | Yes<br>Yes<br>Yes  |
| Use in hazardous areas<br>• ATEX Zone 2<br>• ATEX Zone 22<br>• IECEx Zone 2<br>• IECEx Zone 22   | Yes<br>Yes<br>Yes  |
| Use in hazardous areas<br>• ATEX Zone 2<br>• ATEX Zone 22<br>• IECEx Zone 2<br>• IECEx Zone 22<br>• cULus Class I Zone 1   | Yes<br>Yes<br>Yes<br>No  |
| Use in hazardous areas<br>• ATEX Zone 2<br>• ATEX Zone 22<br>• IECEx Zone 2<br>• IECEx Zone 22<br>• cULus Class I Zone 1<br>• cULus Class I Zone 2, Division 2   | Yes<br>Yes<br>Yes<br>No<br>Yes   |
| Use in hazardous areas<br>• ATEX Zone 2<br>• ATEX Zone 22<br>• IECEx Zone 2<br>• IECEx Zone 22<br>• cULus Class I Zone 1<br>• cULus Class I Zone 2, Division 2<br>• FM Class I Division 2  | Yes<br>Yes<br>Yes<br>No<br>Yes   |
| Use in hazardous areas<br>• ATEX Zone 2<br>• ATEX Zone 22<br>• IECEx Zone 2<br>• IECEx Zone 22<br>• cULus Class I Zone 1<br>• cULus Class I Zone 2, Division 2<br>• FM Class I Division 2<br>Marine approval   | Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes  |
| Use in hazardous areas<br>• ATEX Zone 2<br>• ATEX Zone 22<br>• IECEx Zone 2<br>• IECEx Zone 22<br>• cULus Class I Zone 1<br>• cULus Class I Zone 2, Division 2<br>• FM Class I Division 2<br>Marine approval<br>• Germanischer Lloyd (GL)  | Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes   |
| Use in hazardous areas<br>• ATEX Zone 2<br>• ATEX Zone 22<br>• IECEx Zone 2<br>• IECEx Zone 22<br>• cULus Class I Zone 1<br>• cULus Class I Zone 2, Division 2<br>• FM Class I Division 2<br>Marine approval<br>• Germanischer Lloyd (GL)<br>• American Bureau of Shipping (ABS)   | Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes   |
| Use in hazardous areas<br>• ATEX Zone 2<br>• ATEX Zone 22<br>• IECEx Zone 2<br>• IECEx Zone 22<br>• cULus Class I Zone 1<br>• cULus Class I Zone 2, Division 2<br>• FM Class I Division 2<br>Marine approval<br>• Germanischer Lloyd (GL)<br>• American Bureau of Shipping (ABS)<br>• Bureau Veritas (BV)  | Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes  |
| Use in hazardous areas<br>• ATEX Zone 2<br>• ATEX Zone 22<br>• IECEx Zone 2<br>• IECEx Zone 22<br>• cULus Class I Zone 1<br>• cULus Class I Zone 2, Division 2<br>• FM Class I Division 2<br>Marine approval<br>• Germanischer Lloyd (GL)<br>• American Bureau of Shipping (ABS)<br>• Bureau Veritas (BV)<br>• Det Norske Veritas (DNV)  | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes  |
| Use in hazardous areas<br>• ATEX Zone 2<br>• ATEX Zone 22<br>• IECEx Zone 22<br>• IECEx Zone 22<br>• cULus Class I Zone 1<br>• cULus Class I Zone 2, Division 2<br>• FM Class I Division 2<br>Marine approval<br>• Germanischer Lloyd (GL)<br>• American Bureau of Shipping (ABS)<br>• Bureau Veritas (BV)<br>• Det Norske Veritas (DNV)<br>• Lloyds Register of Shipping (LRS)  | Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes   |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 22<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)  | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes   |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 2<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)<br>Ambient conditions   | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes   |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 22<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)<br>Ambient conditions<br>Ambient temperature during operation  | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes   |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 22<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)<br>Ambient conditions<br>Ambient temperature during operation<br>Operation (vertical installation)   | Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No  |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 22<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)<br>Ambient conditions<br>Ambient temperature during operation<br>Operation (vertical installation)<br>— For vertical installation, min.  | Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No   |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 22<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)<br>Ambient conditions<br>Ambient temperature during operation<br>Operation (vertical installation)<br>— For vertical installation, min.<br>— For vertical installation, max.   | Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No  |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 22<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)<br>Ambient conditions<br>Ambient temperature during operation<br>Operation (vertical installation, min.<br>— For vertical installation, max.<br>Operation (max. tilt angle)  | Yes<br>Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No  |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 22<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)<br>Ambient conditions<br>Ambient temperature during operation<br>Operation (vertical installation)<br>— For vertical installation, min.<br>— For vertical installation, max.<br>Operation (max. tilt angle)<br>— At maximum tilt angle, min.   | Yes<br>Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>O °C<br>50 °C; (55 °C, see entry ID: 64847814)                  |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 22<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)<br>Ambient conditions<br>Ambient temperature during operation<br>Operation (vertical installation)<br>— For vertical installation, min.<br>— For vertical installation, max.<br>Operation (max. tilt angle)<br>— At maximum tilt angle, max.   | Yes<br>Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No  |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 22<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)<br>Ambient conditions<br>Ambient temperature during operation<br>Operation (vertical installation)<br>— For vertical installation, min.<br>— For vertical installation, max.<br>Operation (max. tilt angle)<br>— At maximum tilt angle, max.<br>Operation (vertical installation, portrait format)   | Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>0 °C<br>50 °C; (55 °C, see entry ID: 64847814)<br>0 °C<br>40 °C        |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 2<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)<br>Ambient conditions<br>Ambient temperature during operation<br>Operation (vertical installation)<br>— For vertical installation, min.<br>— For vertical installation, max.<br>Operation (max. tilt angle)<br>— At maximum tilt angle, max.<br>Operation (vertical installation, portrait format)<br>— For vertical installation, min.   | Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>O °C<br>50 °C; (55 °C, see entry ID: 64847814)<br>O °C<br>40 °C |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 2<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)<br>Ambient conditions<br>Ambient temperature during operation<br>Operation (vertical installation)<br>— For vertical installation, min.<br>— For vertical installation, max.<br>Operation (max. tilt angle)<br>— At maximum tilt angle, max.<br>Operation (vertical installation, portrait format)<br>— For vertical installation, min.<br>— For vertical installation, min.<br>— At maximum tilt angle, max. | Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>0 °C<br>50 °C; (55 °C, see entry ID: 64847814)<br>0 °C<br>40 °C        |
| Use in hazardous areas<br>ATEX Zone 2<br>ATEX Zone 22<br>IECEx Zone 2<br>IECEx Zone 22<br>CULus Class I Zone 1<br>CULus Class I Zone 2, Division 2<br>FM Class I Division 2<br>Marine approval<br>Germanischer Lloyd (GL)<br>American Bureau of Shipping (ABS)<br>Bureau Veritas (BV)<br>Det Norske Veritas (DNV)<br>Lloyds Register of Shipping (LRS)<br>Nippon Kaiji Kyokai (Class NK)<br>Polski Rejestr Statkow (PRS)<br>Ambient conditions<br>Ambient temperature during operation<br>Operation (vertical installation)<br>— For vertical installation, min.<br>— For vertical installation, max.<br>Operation (max. tilt angle)<br>— At maximum tilt angle, max.<br>Operation (vertical installation, portrait format)<br>— For vertical installation, min.   | Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>O °C<br>50 °C; (55 °C, see entry ID: 64847814)<br>O °C<br>40 °C |

| — At maximum tilt angle, max.   | 35 ℃                  |
|---|-----------------------|
| At maximum intrangle, max.<br>Ambient temperature during storage/transportation             |                       |
| min.  | -20 °C                |
| • max.  | -20°C                 |
| Relative humidity   |                       |
| • 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  | Nia                   |
| STEP 7 Basic (TIA Portal)   | No                    |
| STEP 7 Professional (TIA Portal)  | No                    |
| WinCC flexible Compact     WinCC flexible Standard  | No                    |
| WinCC flexible Standard     WinCC flexible Advanced   | No                    |
| WinCC Basic (TIA Portal)  | No                    |
| WinCC Comfort (TIA Portal)  | Yes; from V11         |
| WinCC Advanced (TIA Portal)   | Yes; from V11         |
| WinCC Professional (TIA Portal)   | Yes; from V11         |
| Languages   |                       |
| Online languages  |                       |
| Number of online/runtime languages  | 32                    |
| Project languages   |                       |
| <ul> <li>Languages per project</li> </ul>   | 32                    |
| Functionality under WinCC (TIA Portal)  |                       |
| Libraries   | Yes                   |
| Applications/options  |                       |
| Web browser   | Yes                   |
| Pocket Word   | Yes                   |
| Pocket Excel     DE Viewer  | Yes                   |
| <ul><li>PDF Viewer</li><li>Media Player</li></ul>   | Yes                   |
| SIMATIC WinCC Sm@rtServer   | Yes                   |
| SIMATIC WINCC Shi@rtServer     SIMATIC WINCC Audit  | Yes                   |
| Number of Visual Basic Scripts  | Yes                   |
| Task planner  |                       |
| • time-controlled   | Yes                   |
| task-controlled   | Yes                   |
| Message system  |                       |
| <ul> <li>Number of alarm classes</li> </ul>   | 32                    |
| Bit messages  | Yes                   |
| <ul> <li>Number of bit messages</li> </ul>  | 4 000                 |
| Analog messages   | Yes                   |
| — Number of analog messages   | 200                   |
| S7 alarm number procedure   | Yes                   |
| <ul> <li>System messages HMI</li> <li>System event, more (SIMATIC S7, SINUMERIK,</li> </ul> | Yes                   |
| SIMOTION, )   |                       |
| <ul> <li>Number of characters per message</li> </ul>  | 80                    |
| <ul> <li>Number of process values per message</li> </ul>                                    | 8                     |
| Acknowledgment groups   | Yes                   |
| Message indicator   | Yes                   |
| Recipe management   |                       |

| Number of recipes     Solo     Estivise per data record     1000   |  | 000   |
|--|--|-------|
| Entries per visa record     Sord virus     Entries per visa record     Sord virus     Recipe memory expandable     Yes      Variables   | Number of recipes  | 300   |
| size of internal rege memory 2 Mayle<br>Regic memory expandable<br>Versibles<br>Number of variables per device<br>Number of variables per device<br>Number of variables per device<br>Number of variables per device<br>Structures<br>Structures<br>Structures<br>Number of configurable images<br>Number of configurable images<br>Number of ondigurable images<br>Number of objects per image<br>Number of objects ves<br>Number of objects ves<br>Number of objects ves<br>Number of openets objects<br>Number of entries per openet<br>Number of entries |  |       |
| • Recipe memory expandable         Yes           Variables         2048           • Number of variables per screen         400           • Linit values         Yes           • Multiplexing         Yes           • Multiplexing         Yes           • Structures         Yes           • Number of configurable images         500           • Permanent window/default         Yes           • Cobal image         Yes           • Cobal image         Yes           • Recipe multiple window/default         Yes           • Recipe multiple images         Yes           • Recipe diverse         Yes           • Recipe multiple in the PLC         Yes           • Recipe diverse         Yes           • Number of oligids per image         400           • Tots fields         Yes           • Contradids         Yes           • Contradids         Yes           • Symbolic Oligids per screen         20           • Symbolic Oligids         Yes           • Symbolic  |  |       |
| Varables         2048           • Number of variables per screen         400           • Limit values         Yes           • Multiplexing         Yes           • Structures         Yes           • Structures         Yes           • Arraya         Yes           • Traya         Yes           • Number of configurable images         500           • Permanent windowlofault         Yes           • Global image         Yes           • Global image         Yes           • Bidide-In images         Yes           • Bidide-In images         Yes           • Bidide-In images         Yes           • Image acticotion by PLC         Yes           • Image acticotion by PLC         Yes           • Text fields         Yes           • Of objects per image         400           • Text fields         Yes           • Of objects (graphics list)         Yes           • Oraphic lob fields (graphics list)         Yes           • Statchas         Yes           • Statchas         Yes           • Graphic diplay         Yes           • Statchas         Yes           • Statchas         Yes   |  |       |
| • Number of variables per device     2.048       • Number of variables per screen     400       • Limit values     Yes       • Multiplexing     Yes       • Number of configurable images     Yes       • Number of configurable images     500       • Permanent window/default     Yes       • Global image     Yes       • Op-up images     Yes       • Reget window indow/default     Yes       • Global image     Yes       • Image selection by PLC     Yes       • Image selection by PLC     Yes       • Image selection by PLC     Yes       • Number of objects per image     400       • Tot fields     Yes       • Offeds     Yes       • Offeds </td <td></td> <td>Yes</td>   |  | Yes   |
| • Number of variables per screen400• Linit valuesYes• MultiploxingYes• StructuresYes• ArraysYes• ArraysYes• Number of ondigurable images500• Permanent windwolfadultYos• Clobal imageYes• Romage imagesYes• Romage imagesYes• Statefaction by PLCYes• Image action by PLCYes• Image action by PLCYes• Tract fieldsYes• Tract fieldsYes• Clobeld imageYes• Clobeld imageYes• Tract fieldsYes• ClobeldsYes• ClobeldsYes• ClobeldsYes• ClobeldsYes• ClobeldsYes• ClobeldsYes• ClobeldsYes• StructuresYes• StructuresYes• StructuresYes• Comptex image actionsYes• Comptex image actionsYes <td></td> <td>2.049</td>   |  | 2.049 |
| <ul> <li>Linit values</li> <li>Mutiplexing</li> <li>Ves</li> <li>Structures</li> <li>Ves</li> <li>Arrays</li> <li>Ves</li> <li>Arrays</li> <li>Ves</li> <li>Arrays</li> <li>Ves</li> <li>Arrays</li> <li>Ves</li> <li>Arrays</li> <li>Ves</li> <li>Arrays</li> <li>Ves</li> <li>Configurable images</li> <li>Solute images</li> <li>Permanent window/default</li> <li>Ves</li> <li>Solute in images</li> <li>Ves</li> <li>Image entities in the PLC</li> <li>Ves</li> <li>Image entities in the PLC</li> <li>Ves</li> <li>Total fields</li> <li>Ves</li> <li>Context fields</li> <li>Ves</li> <li>Solute in fields</li> <li>Ves</li> <li>Solute information</li> <li>Ves</li> <li>Context image adjects</li> <li>Ves</li> <li>Context image adjects</li> <li>Ves</li> <li>Solute information</li> <li>Ves</li> <li>Solute informatinformatin</li></ul>   |  |       |
| MultiplexingYes• StructuresYes• ArraysYes• Number of configurable images500• Permanent windowidebultYes• Global imageYes• Global imagesYes• States in image selection by PLCYes• Statubacture to ID fields (text list)Yes• Statubacture fieldsYes• Statubacture fieldsYes• Statubacture of complex objects per screen20• Alam viewYes• User viewYes• Statubacture of adopteds per screen20• Alam viewYes• User viewYes• Statubacture of adopteds yerYes• Statubacture of adopteds yerYes• Statubacture of adopteds yerYes• Statubactur   |  |       |
| <ul> <li>Structures</li> <li>Ves</li> <li>Arrays</li> <li>Ves</li> <li>Arrays</li> <li>Ves</li> <li>Arrays</li> <li>Ves</li> <li>Analys</li> <li>Ves</li> <li>Structures</li> <li>Operangent window/default</li> <li>Yes</li> <li>Structures</li> <li>Permanent window/default</li> <li>Yes</li> <li>Structures</li> <li>Permanent window/default</li> <li>Yes</li> <li>Structures</li> <li>Permanent window/default</li> <li>Yes</li> <li>Structures</li> <li>Permanent window/default</li> <li>Yes</li> <li>Structures</li> <li>Structures</li> <li>Yes</li> <li>Structures</li> <li>Structures</li> <li>Yes</li> <li>Structures</li> <li>Number of objects per image</li> <li>400</li> <li>Text fields</li> <li>Yes</li> <li>Symbolic 10 fields (graphics list)</li> <li>Yes</li> <li>Suttons</li> <li>Genemic objects</li> <li>Yes</li> <li>Somethic objects</li> <li>Yes</li> <li>Commets</li> <li>Yes</li> <li>Somethic objects</li> <li>Yes</li> <li>Structures</li> <li>Yes</li> <li>Str</li></ul>   |  |       |
| ArraysYesImages500• Number of configurable images500• Cobal imageYes• Global imageYes• Global imageYes• Slide-initagesYes• Slide-initagesYes• Image selection by PLCYes• Image number in the PLCYes• Image selection by PLCYes• Graphic blob felds (graphics list)Yes• System fieldsYes• Geometric objectsYes• Geometric objectsYes• Commeter mage objectsYes• User viewYes• User viewYes• User viewYes• System field diagnostics viewYes• System field diagnostics viewYes• System field diagnostics viewYes• System field diagnostics viewYes• PDF displayYes• PDF displayYes <td></td> <td></td>   |  |       |
| Images         500           • Permanent window/default         Yes           • Obobal image         Yes           • Obobal images         Yes           • Perpenginges         Yes           • Sidde-in images         Yes           • Image number in the PLC         Yes           • Image number in the PLC         Yes           • Number of objects per image         400           • Too fields (graphics list)         Yes           • Uo fields (graphics list)         Yes           • Symbolic UO fields (graphics list)         Yes           • Datatione fields         Yes           • Datatione objects         Yes           • Datationes         Yes           • Datationes         Yes           • Subtextcontrol         Yes           • User view <td></td> <td></td>   |  |       |
| • Number of configurable images     500       • Permanent window/default     Yes       • Global image     Yes       • Sidde-in images     Yes       • Sidde-in images     Yes       • Image selection by PLC     Yes       • Ion fields     Yes       • Ion fields     Yes       • Ion fields     Yes       • Symbolic IO fields (text list)     Yes       • Symbolic IO fields (text list)     Yes       • Subtons     Yes       • Commetric objects     Yes       • Complex image objects     Yes       • Complex image objects     Yes       • Trend Yew     Yes       • Status/control     Yes       • SinghtClient view     Yes       • Status/control     Yes       • System diagnostics view     Yes       • Ford rid view <td></td> <td>100</td>   |  | 100   |
| Permanent window/defaultYesCilobal imageYesSilde-in imagesYesSilde-in imagesYesImage selection by PLCYesImage selection by PLCYesImage objects400Text fieldsYesVomber of objects per image400Tot fields (graphics list)YesSymbolic UO fields (graphics list)YesSymbolic UO fields (text list)YesSymbolic UO fields (text list)YesDatatime fieldsYesSoutchesYesSoutchesYesComplex list)YesSoutchesYesComplex list)YesSoutchesYesComplex list)YesSoutchesYesSoutchesYesSoutchesYesSoutchesYesSoutchesYesSoutchesYesStatisforthodYesStatisforthodYesStatisforthodYesSystem diagnostics viewYesSystem diagnostics viewYesSystem diagnostics viewYesPDF displayYesSoutified HayerYesSoutified SouteYesSoutified SouteYesSoutified SouteYesSoutified SouteYesSoutified SouteYesSoutified SouteYesSoutified SouteYesSoutified SouteYesSoutified SouteYesSoutified SouteY  |  | 500   |
| • Global image     Yes       • Pop-up images     Yes       • Image selection by PLC     Yes       • Image number in the PLC     Yes       • Number of objects per image     400       • Tast fields     Yes       • Io Tast fields     Yes       • Of field (graphics list)     Yes       • Symotic I/O fields (graphics list)     Yes       • Symotic I/O fields (text list)     Yes       • Date/time fields     Yes       • Buttons     Yes       • Caraphic I/O fields (text list)     Yes       • Symotic I/O fields (text list)     Yes       • Buttons     Yes       • Complex image objects     Yes       • Situk/sorthol     Yes  |  |       |
| Pop-up imagesYesSilde-in imagesYesImage selection by PLCYesImage activity of the PLCYesImage objects400Text fieldsYesI/ Di fieldsYesGraphic U/D fields (graphics list)YesSymbolic I/D fields (text list)YesComplex image objectsYesButtonsYesComplex image objectsYesComplex image objectsYesComplex image objectsYesSitalusicontrol <td></td> <td></td>   |  |       |
| • Silde-in images     Yes       • Image selection by PLC     Yes       • Image collects        • Number of objects per image     400       • Text fields     Yes       • Carphic UO fields (graphics list)     Yes       • Symbolic IIO fields (graphics list)     Yes       • Symbolic IIO fields (graphics list)     Yes       • Symbolic IIO fields (text list)     Yes       • Subtches     Yes       • Buttons     Yes       • Complex image objects     Yes       • Complex image objects     Yes       • Complex image objects     Yes       • Number of complex objects per screen     20       • Alarm view     Yes       • Trend view     Yes       • User view     Yes       • Status/control     Yes       • Status/control     Yes       • Recipe view     Yes       • Recipe view     Yes       • Recipe view     Yes       • Recipe view     Yes       • Status/control     Yes       • Sidiers     Yes       • Sidiers     Yes       • Do figiplay     Yes       • Recipe view     Yes       • Recipe view     Yes       • System Giagnostics view     Yes       • System Giagnostics vi   | -  |       |
| image selection by PLC Yes<br>image outwer in the PLC Yes<br>image objects<br>Final fields Yes<br>of a philo Vol fields (graphics list)<br>Symbobic I/O fields (graphics list)<br>Yes<br>of aphilo I/O fields (graphics list)<br>Yes<br>Symbobic I/O fields (graphics list)<br>Yes<br>Somotric O formplex objects<br>Yes<br>Complex image objects<br>Yes<br>Somotric O formplex objects per screen<br>Alarm view<br>Yes<br>Status/control<br>Yes<br>System Idigonatics view<br>Yes<br>System Idigonatics view<br>Yes<br>System Idigonatics view<br>Yes<br>System Idigonatics view<br>Yes<br>HTML browser<br>Yes<br>HTML browser<br>Yes<br>Analogidigital clock<br>Yes<br>Analogidigital clock<br>Number of entries per project<br>Number of entries per project<br>Number of entries per archive<br>Number of entries per archive<br>Number of entries per device<br>Number of entries per archive<br>Yes<br>Number of entries per device<br>Number of entries per archive<br>Yes  |  |       |
| • Image number in the PLC         Yes           Image objects         400           • Number of objects per image         400           • Text fields         Yes           • Uo fields         Yes           • Oraphic I/O fields (graphics list)         Yes           • Symbolic I/O fields (graphics list)         Yes           • Date/time fields         Yes           • Switches         Yes           • Buttons         Yes           • Craphic I/O fields (graphics list)         Yes           • Switches         Yes           • Complex image objects         Yes           • Complex image objects         Yes           • Complex image objects         Yes           • Number of complex objects per screen         20           • Alarm view         Yes           • Trend view         Yes           • Status/control         Yes           • Status/control         Yes           • SigntClient view         Yes           • System diagnostics view         Yes           • System diagnostics view         Yes           • System diagnostics view         Yes           • IFICH, browser         Yes           • Dioter instruments         Yes <td></td> <td></td>  |  |       |
| Image objects       400         • Number of objects per image       400         • Text fields       Yes         • I/O fields       Yes         • Craphic I/O fields (graphics list)       Yes         • Symbobic I/O fields (text list)       Yes         • Datertime fields       Yes         • Datertime fields       Yes         • Buttons       Yes         • Buttons       Yes         • Geometric objects       Yes         • Geometric objects       Yes         • Complex image objects       Yes         • User view       Yes         • User view       Yes         • Statuscontrol       Yes         • Bar graphs       Yes         • PDF display       Yes   |  |       |
| • Number of objects per image     400       • Text fields     Yes       • I/O fields     Yes       • Graphic I/O fields (graphics list)     Yes       • Symbolic I/O fields (graphics list)     Yes       • Datachine fields     Yes       • Datachine fields     Yes       • Switches     Yes       • Buttons     Yes       • Complex display     Yes       • Complex image objects     Yes       • Complex image objects     Yes       • Number of complex objects per screen     20       • Alarm view     Yes       • User view     Yes       • User view     Yes       • Statuscontrol     Yes       • Statuscontrol     Yes       • System diagnostics view     Yes       • Media Player     Yes       • HTML browser     Yes       • Die camera display     Yes       • Bar graphs     Yes       • Biders     Yes       • Silders     Yes       • Number of rext lists per project     500       • Number of entries per text list     500       • Number of entries per archive <td>-</td> <td></td>   | -  |       |
| • Text fieldsYes• I/O fieldsYes• Graphic I/O fields (graphics list)Yes• Symbolic I/O fields (text list)Yes• Date/time fieldsYes• SwitchesYes• SwitchesYes• Graphic displayYes• CornsYes• Status/controlYes• Status/controlYes• Status/controlYes• Status/controlYes• Status/controlYes• Status/controlYes• Status/controlYes• Status/controlYes• Recip wiewYes• Media PlayerYes• Mord PlayerYes• Ber graphsYes• Diff instrumentsYes• Diff instrumentsYes• Diff instrumentsYes• Number of text list per project500• Number of entries per text list500• Number of entries per graphics lists per project500• Number of entries per archive20 000• Message archiveYes• Number of entries per archive20 000• Message archiveYes• Number of entries per archive20 000• Nessage archive   |  | 400   |
| <ul> <li>Graphic I/O fields (graphics list)</li> <li>Yes</li> <li>Obter/fime fields</li> <li>Switches</li> <li>Switches&lt;</li></ul>  |  | Yes   |
| <ul> <li>Symbolic I/O fields (text list)</li> <li>Yes</li> <li>Date/time fields</li> <li>Yes</li> <li>Suttons</li> <li>Graphic display</li> <li>Icons</li> <li>Geometric objects</li> <li>Ves</li> <li>Complex image objects</li> <li>Number of examplex objects per screen</li> <li>Solution</li> <li>Yes</li> <li>Status/control</li> <li>Yes</li> <li< td=""><td>● I/O fields</td><td>Yes</td></li<></ul>   | ● I/O fields   | Yes   |
| • Date/time fieldsYes• SwitchesYes• ButtonsYes• Graphic displayYes• CornsYes• CornsYes• Complex inage objectsYesComplex inage objectsYes• Number of complex objects per screen20• Name of complex objects per screen20• Name viewYes• Status/controlYes• Status/controlYes• Status/controlYes• Recipe viewYes• Recipe viewYes• Media PlayerYes• HTML browserYes• PDF displayYes• Plater status/controlYes• Bar graphsYes• SildersYes• Number of text lists per project500• Number of archives per device50• Number of archives per archive20000• Number of archives per archive20000• Number of archives per archive20000• Number of archives per archive20000   | <ul> <li>Graphic I/O fields (graphics list)</li> </ul>   | Yes   |
| • SwitchesYes• ButtonsYes• Graphic displayYes• ConsYes• Geometric objectsYesComplex image objects20• Number of complex objects per screen20• Alarm viewYes• User viewYes• User viewYes• Status/controlYes• Status/controlYes• Status/controlYes• System diagnostics viewYes• Recipe viewYes• Koy trend viewYes• Def displayYes• Number of entries per project500• Number of entries per text list500• Number of entries per device50• Number of entries per archive20 000<   | <ul> <li>Symbolic I/O fields (text list)</li> </ul>      | Yes   |
| • ButtonsYes• Graphic displayYes• IconsYes• Geometric objectsYes• Complex image objects20• Number of complex objects per screen20• Alarn viewYes• Trend viewYes• Trend viewYes• User viewYes• Status/controlYes• Sn@ptClient viewYes• Recipe viewYes• Recipe viewYes• Recipe viewYes• System diagnostics viewYes• Media PlayerYes• ITTL browserYes• IP camera displayYes• Differ instrumentsYes• SlidersYes• Analog/digital clockYes• Number of extrist per project500• Number of entries per graphics list500• Number of entries per graphics list500• Number of entries per archive50• Number of entries per archive5  | Date/time fields   | Yes   |
| Graphic displayYesI consYesGeometric objectsYesComplex image objects20Number of complex objects per screen20Alarm viewYesUser viewYesUser viewYesStatus/controlYesStatus/controlYesStatus/controlYesStatus/controlYesMedia PlayerYesMedia PlayerYesPDF displayYesPDF displayYesStatus/controlYesStatus/controlYesMedia PlayerYesSystem diagnostics viewYesPDF displayYesPDF displayYesSlidersYesPointer instrumentsYesAnalog/digital clockYesList500Number of entries per text list500Number of archives per device50Number of entries per displayYesNumber of entries per displayYesNumber of entries per device50Number of entries per displayYesNumber of entries per archive20 000Message archiveYes   | Switches   | Yes   |
| • Icons     Yes       Geometric objects     Yes       Complex image objects     20       • Number of complex objects per screen     20       • Alarm view     Yes       • Trend view     Yes       • Trend view     Yes       • Status/control     Yes       • SingertClient view     Yes       • Recipe view     Yes       • Recipe view     Yes       • System diagnostics view     Yes       • System diagnostics view     Yes       • Media Player     Yes       • HTML browser     Yes       • HTML browser     Yes       • IPC display     Yes       • IP camera display     Yes       • Sliders     Yes       • Analog/digital clock     Yes       • Number of text lists per project     500       • Number of entries per text list     500       • Number of archives per device     50       • Number of archives per device     50       • Number of archives per device     50       • Number of archives per archive     20 000       • Message archive     Yes <td>Buttons</td> <td>Yes</td>  | Buttons  | Yes   |
| • Geometric objectsYesComplex image objects20• Number of complex objects per screen20• Alarm viewYes• Trend viewYes• User viewYes• User viewYes• Status/controlYes• Status/controlYes• Recipe viewYes• Recipe viewYes• f(x) trend viewYes• System diagnostics viewYes• System diagnostics viewYes• DDF displayYes• PDF displayYes• PDF displayYes• Bar graphsYes• SlidersYes• Analog/digital clockYes• Number of entries per toylect500• Number of entries per toylect500• Number of archives per device50• Number of entries per graphics list20 000• Message archiveYes  | Graphic display  | Yes   |
| Complex image objectsNumber of complex objects per screen20Alarm viewYesTrend viewYesUser viewYesStatus/controlYesSm@rtClient viewYesRecipe viewYesenditiveYessm@rtClient viewYesSystem diagnostics viewYesenditiveStidersvesYesenditiveYesenditiveStidersenditiveStidersformationYesenditiveStidersformationStidersformationStidersenditiveStidersformationStidersformationStidersformationStidersformationStidersformationStidersformationStidersformationStidersformationStidersformationStiders <td>• Icons</td> <td>Yes</td>  | • Icons  | Yes   |
| • Number of complex objects per screen20• Alarm viewYes• Trend viewYes• User viewYes• Status/controlYes• Sm@rtClient viewYes• Recipe viewYes• Recipe viewYes• Kit trend viewYes• System diagnostics viewYes• Media PlayerYes• HTML browserYes• PDF displayYes• Bar graphsYes• SlidersYes• Pointer instrumentsYes• Analog/digital clockYes• Lists500• Number of entries per project500• Number of entries per text list500• Number of archives per device50• Number of archives per device50• Number of archives per device50• Number of archives per archive20 000• Message archiveYes   |  | Yes   |
| Alarm viewYesTrend viewYesUser viewYesUser viewYesStatus/controlYesStatus/controlYesRecipe viewYesRecipe viewYesf(x) trend viewYesSystem diagnostics viewYesMedia PlayerYesHTML browserYesPDF displayYesBar graphsYesSlidersYesPointer instrumentsYesAnalog/digital clockYesItists500Number of entries per project500Number of entries per graphics lists500Number of entries per archive50Number of entries per archive50   |  |       |
| • Trend viewYes• User viewYes• Status/controlYes• Sm@rtClient viewYes• Recipe viewYes• f(x) trend viewYes• f(x) trend viewYes• Media PlayerYes• Media PlayerYes• HTML browserYes• IP Camera displayYes• Bar graphsYes• SlidersYes• Number of text lists per project500• Number of entries per text list500• Number of entries per graphics lists per project500• Number of entries per device50• Number of entries per archive20 000• Message archiveYes   | <ul> <li>Number of complex objects per screen</li> </ul> |       |
| • User viewYes• Status/controlYes• Sm@rtClient viewYes• Recipe viewYes• Recipe viewYes• System diagnostics viewYes• Media PlayerYes• Media PlayerYes• HTML browserYes• PDF displayYes• IP camera displayYes• SlidersYes• Pointer instrumentsYes• Number of entries per project500• Number of graphics lists per project500• Number of entries per device500• Number of archives per device50• Number of archives per device50• Number of archives per device50• Number of entries per archive20 000• Message archiveYes  |  |       |
| • Status/controlYes• Sm@rtClient viewYes• Recipe viewYes• Recipe viewYes• f(x) trend viewYes• System diagnostics viewYes• Media PlayerYes• Media PlayerYes• HTML browserYes• HTML browserYes• PDF displayYes• Bar graphsYes• SlidersYes• Pointer instrumentsYes• Analog/digital clockYes• Number of text lists per project500• Number of graphics lists per project500• Number of archives per device50• Number of archives per archive20 000• Message archiveYes  |  |       |
| • Sm@rtClient viewYes• Recipe viewYes• f(x) trend viewYes• System diagnostics viewYes• Media PlayerYes• Media PlayerYes• HTML browserYes• HTML browserYes• PDF displayYes• Bar graphsYes• SlidersYes• Pointer instrumentsYes• Analog/digital clockYes• Number of text lists per project500• Number of graphics lists per project500• Number of archives per device50• Number of archives per archive20 000• Message archiveYes  |  |       |
| Recipe viewYes• Recipe viewYes• f(x) trend viewYes• System diagnostics viewYes• Media PlayerYes• HTML browserYes• PDF displayYes• PDF displayYes• IP camera displayYes• Bar graphsYes• SlidersYes• Analog/digital clockYes• Number of text lists per project500• Number of entries per text list500• Number of graphics lists per project500• Number of achtives per device50• Number of achtives per achtive20 000• Message archiveYes  |  |       |
| f(x) trend viewYes• f(x) trend viewYes• System diagnostics viewYes• Media PlayerYes• HTML browserYes• PDF displayYes• IP camera displayYes• Bar graphsYes• SlidersYes• Pointer instrumentsYes• Analog/digital clockYes <b>Lists</b> 500• Number of text lists per project500• Number of graphics lists per project500• Number of graphics lists per project500• Number of entries per text list500• Number of entries per aphics list500• Number of entries per archive50• Number of entries per archi   | -  |       |
| System diagnostics viewYesMedia PlayerYesHTML browserYesPDF displayYesIP camera displayYesBar graphsYesSlidersYesPointer instrumentsYesPointer instrumentsYesAnalog/digital clockYesNumber of text lists per project500Number of entries per text list500Number of entries per graphics lists per project500Number of entries per graphics list500Number of entries per device50Number of entries per device50Number of entries per device50Number of entries per archive20 000Message archiveYes  |  |       |
| • Media PlayerYes• HTML browserYes• PDF displayYes• IP camera displayYes• Bar graphsYes• SlidersYes• SlidersYes• Pointer instrumentsYes• Analog/digital clockYes <b>Lists</b> • Number of text lists per project500• Number of entries per text list500• Number of entries per graphics lists per project500• Number of entries per graphics list500• Number of entries per graphics list500• Number of entries per device50• Number of entries per archive20 000• Message archiveYes  |  |       |
| HTML browserYesPDF displayYesIP camera displayYesBar graphsYesSlidersYesPointer instrumentsYesAnalog/digital clockYesListsI sumber of text lists per projectNumber of entries per text list500Number of graphics lists per project500Number of entries per device500Number of entries per device500Number of archives per device50Number of entries per archive20 000Message archiveYes  |  |       |
| • PDF displayYes• IP camera displayYes• Bar graphsYes• SlidersYes• Pointer instrumentsYes• Analog/digital clockYes• Number of text lists per project500• Number of entries per text list500• Number of graphics lists per project500• Number of entries per text list500• Number of entries per device500• Number of entries per device500• Number of entries per device500• Number of archives per device50• Number of archives per device50• Number of entries per archive20 000• Message archiveYes   | -  |       |
| IP camera displayYesBar graphsYesSlidersYesPointer instrumentsYesAnalog/digital clockYesListsNumber of text lists per project500Number of entries per text list500Number of graphics lists per project500Number of entries per graphics list500Archiving500Number of entries per device50Number of archives per device50Number of entries per archive20 000Message archiveYes  |  |       |
| • Bar graphsYes• SlidersYes• Pointer instrumentsYes• Analog/digital clockYesItists• Number of text lists per project500• Number of entries per text list500• Number of graphics lists per project500• Number of entries per graphics list500• Number of entries per graphics list500• Number of entries per graphics list500• Number of entries per device500• Number of archives per device50• Number of entries per archive20 000• Message archiveYes  |  |       |
| SlidersYesPointer instrumentsYesAnalog/digital clockYesListsItists500Number of entries per text list500Number of entries per text list500Number of graphics lists per project500Number of entries per text list500Number of entries per text list500Number of archives per graphics list500Archiving100Number of archives per device50Number of entries per archive20 000Message archiveYes  |  |       |
| Pointer instrumentsYesAnalog/digital clockYesListsItists500Number of text lists per project500Number of graphics lists per project500Number of graphics lists per project500Number of entries per graphics list500Archiving500Number of archives per device50Number of entries per archive20 000Message archiveYes   |  |       |
| • Analog/digital clockYesLists• Number of text lists per project500• Number of entries per text list500• Number of graphics lists per project500• Number of entries per graphics list500• Number of archives per device50• Number of archives per device50• Number of entries per archive20 000• Message archiveYes  |  |       |
| Lists         • Number of text lists per project       500         • Number of entries per text list       500         • Number of graphics lists per project       500         • Number of entries per graphics list       500         • Number of entries per graphics list       500         • Number of entries per graphics list       500         Archiving       500         • Number of archives per device       50         • Number of entries per archive       20 000         • Message archive       Yes  |  |       |
| Number of text lists per project500Number of entries per text list500Number of graphics lists per project500Number of entries per graphics list500Archiving500Number of archives per device50Number of entries per archive20 000Message archiveYes   |  |       |
| Number of entries per text list500Number of graphics lists per project500Number of entries per graphics list500Archiving500Number of archives per device50Number of entries per archive20 000Message archiveYes  |  | 500   |
| Number of graphics lists per project500• Number of entries per graphics list500Archiving500• Number of archives per device50• Number of entries per archive20 000• Message archiveYes  |  |       |
| • Number of entries per graphics list       500         Archiving       50         • Number of archives per device       50         • Number of entries per archive       20 000         • Message archive       Yes   |  |       |
| Archiving         • Number of archives per device       50         • Number of entries per archive       20 000         • Message archive       Yes  |  |       |
| • Number of archives per device50• Number of entries per archive20 000• Message archiveYes   |  |       |
| Number of entries per archive 20 000     Message archive Yes   |  | 50    |
| Message archive Yes  |  |       |
|  |  | Yes   |
|  | -  | Yes   |

| Archiving methods     — Sequential archive  | Yes   |
|---|---|
| — Sequential archive     — Short-term archive   | Yes   |
| Memory location   | res   |
| -   | Yes   |
| — Memory card   | Yes   |
| — USB memory<br>— Ethernet  | Yes   |
| Data storage format   | 165   |
| - CSV   | Yes   |
| — CSV<br>— 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  |   |
| Keyboard fonts  |   |
| — US English  | Yes   |
| Transfer (upload/download)  |   |
| MPI/PROFIBUS DP   | Yes   |
| • USB   | Yes   |
| • Ethernet  | Yes   |
| <ul> <li>using external storage medium</li> </ul>   | Yes   |
| Process coupling  |   |
| • S7-1200   | Yes   |
|   |   |
| • S7-1500   | Yes   |
|   | Yes<br>Yes  |
| • S7-1500   |   |
| • S7-1500<br>• S7-200   | Yes   |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> </ul>   | Yes<br>Yes  |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> </ul>  | Yes<br>Yes<br>Yes   |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> </ul>   | Yes<br>Yes<br>Yes   |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> </ul>  | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package   |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> </ul>  | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes  |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> </ul>   | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes   |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> </ul>  | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes  |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> </ul>  | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes  |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> </ul>   | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes   |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> </ul>   | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes  |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> </ul>   | Yes<br>Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>No  |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> </ul>  | Yes<br>Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>Yes   |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul>  | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes   |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul>  | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes                                |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids   | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes  |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> </ul>  | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Ye                                |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids   | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Ye                                |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> </ul>  | Yes<br>Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Ye                                |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> </ul>   | Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Ye |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul>                                  | Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Ye |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> | Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes                  |
| <ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Printer                          | Yes<br>Yes<br>Yes; with SINUMERIK option package<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes                  |

| USB memory                             | Yes              |
|--|------------------|
| SIMATIC IPC USB Flashdrive (USB stick) | Yes; Up to 16 GB |
| SIMATIC HMI USB stick                  | Yes; Up to 8 GB  |
| Network camera                         | Yes              |
| Mechanics/material                     |                  |
| Enclosure material (front)             |                  |
| Plastic                                | No               |
| Aluminum                               | Yes              |
| 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                          | 63 mm            |
| Weights                                |                  |
| Weight (without packaging)             | 1.4 kg           |
| Weight (with packaging)                | 1.6 kg           |
|  |                  |

last modified:

5/27/2022 🖸