## SIEMENS

## Data sheet

## 6AV2124-0MC01-0AX0



SIMATIC HMI TP1200 Comfort, Comfort Panel, touch operation, 12" 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	TP1200 Comfort
Display	
Design of display	TFT
Screen diagonal	12.1 in
Display width	261.1 mm
Display height	163.2 mm
Number of colors	16 777 216
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	1 280 pixel
<ul> <li>Vertical image resolution</li> </ul>	800 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	80 000 h
Backlight dimmable	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
Numeric keyboard	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>	40
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	

	DC
Type of supply voltage	24 V
Rated value (DC)	
permissible range, lower limit (DC) permissible range, upper limit (DC)	19.2 V 28.8 V
	20.0 V
Input current	
Current consumption (rated value)	0.85 A
Starting current inrush I <sup>2</sup> t	0.5 A <sup>2</sup> ·s
Power	
Active power input, typ.	20 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	Yes
retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Internation	
Number of industrial Ethernet interfaces	1:2 ports (switch)
Number of industrial Ethernet interfaces	1; 2 ports (switch) 1: RS 422 / 485 combined
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 485 interfaces Number of RS 422 interfaces	1; RS 422 / 485 combined 0; together with RS 485
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces	1; RS 422 / 485 combined 0; together with RS 485 0
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         Number of USB interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         Number of USB interfaces         • USB Mini B	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY)	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         Number of USB interfaces         • USB Mini B         Number of 20 mA interfaces (TTY)         Number of parallel interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         Number of USB interfaces         • USB Mini B         Number of 20 mA interfaces (TTY)         Number of parallel interfaces         Number of other interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 2 No
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 2
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 2 No
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 2 2 2
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 2 No Ves
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 2 2 2 Yes
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes Yes; As of WinCC V12
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes Yes; As of WinCC V12 Yes
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 2 No Ves Yes Yes; As of WinCC V12 Yes Yes
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes Yes; As of WinCC V12 Yes
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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)	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 0 2 No 2 Yes Yes Yes Yes; As of WinCC V12 Yes Yes Yes Yes
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined         0; together with RS 485         0         2; USB 2.0         1; 5-pole         0         0         0         0         2         Yes         Yes
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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         • Number of ports of the integrated switch         Protocols         PROFINET         Supports protocol for PROFINET IO         IRT         PROFIBUS         EtherNet/IP         MPI         Protocols (Ethernet)         • TCP/IP         • DHCP	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 2 No 2 2 2 2 2 2 2 2 2 2 2 2 2
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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	1; RS 422 / 485 combined         0; together with RS 485         0         2; USB 2.0         1; 5-pole         0         0         0         0         0         0         0         0         0         0         0         0         0         2         Yes         Yes
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         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         • 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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 0 2 No 2 2 2 2 2 2 Yes Yes Yes Yes Yes Yes Yes Yes
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         Number of USB interfaces         • USB Mini B         Number of 20 mA interfaces (TTY)         Number of parallel 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	1; RS 422 / 485 combined         0; together with RS 485         0         2; USB 2.0         1; 5-pole         0         0         0         0         0         0         0         0         0         0         0         0         0         2         Yes         Yes
Number of RS 485 interfaces         Number of RS 232 interfaces         Number of RS 232 interfaces         Number of USB interfaces         • USB Mini B         Number of 20 mA interfaces (TTY)         Number of parallel 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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 0 2 No 2 2 2 2 2 Yes Yes Yes Yes Yes Yes Yes Yes
Number of RS 485 interfaces         Number of RS 422 interfaces         Number of RS 232 interfaces         Number of USB interfaces         • USB Mini B         Number of 20 mA interfaces (TTY)         Number of parallel 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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 0 2 No 2 2 2 2 2 2 Yes Yes Yes Yes Yes Yes Yes Yes

• 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 B, for use in residential areas	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	N.
• Enclosure Type 4 at the front	Yes
• Enclosure Type 4x at the front	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Use in hazardous areas	
	Yes
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22	
Use in hazardous areas • ATEX Zone 2	Yes
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22	Yes Yes
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2	Yes Yes Yes
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 • IECEx Zone 22	Yes Yes Yes
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 • IECEx Zone 22 • cULus Class I Zone 1	Yes Yes Yes Yes No
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 • IECEx Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2	Yes Yes Yes No Yes
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 • IECEx Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2 • FM Class I Division 2	Yes Yes Yes No Yes
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 22 • IECEx Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2 • FM Class I Division 2 Marine approval	Yes Yes Yes No Yes Yes
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 • IECEx Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2 • FM Class I Division 2 Marine approval • Germanischer Lloyd (GL)	Yes Yes Yes Yes No Yes Yes Yes
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 22 • IECEx Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2 • FM Class I Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS)	Yes Yes Yes Yes No Yes Yes Yes Yes Yes
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 22 • IECEx Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2 • FM Class I Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV)	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes; As of product version: 10 Yes; As of product version: 10 Yes; As of product version: 10
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 22 • IECEx Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2 • FM Class I Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV)	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes; As of product version: 10 Yes; As of product version: 10 Yes; As of product version: 10 Yes; As of product version: 10
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 22 • IECEx Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2 • FM Class I Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS)	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Sof product version: 10 Yes; As of product version: 10
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK)	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Sof product version: 10 Yes; As of product version: 10
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Sof product version: 10 Yes; As of product version: 10
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Sof product version: 10 Yes; As of product version: 10
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation Operation (vertical installation)	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Sof product version: 10 Yes; As of product version: 10 No
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation Operation (vertical installation) — For vertical installation, min.	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes As of product version: 10 Yes; As of product version: 10 No
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max.	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Sof product version: 10 Yes; As of product version: 10 No
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle)	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes As of product version: 10 Yes; As of product version: 10 No 0 °C 50 °C; (55 °C, see entry ID: 64847814)
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min.	Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, max.	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes As of product version: 10 Yes; As of product version: 10 No
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, max. Operation (vertical installation, portrait format)	Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes O °C 50 °C; (55 °C, see entry ID: 64847814) 0 °C 40 °C
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min.	Yes Yes Yes No Yes Yes Yes Yes Yes Yes Ores; As of product version: 10 Yes; As of product version: 10 No Ore 50 °C; (55 °C, see entry ID: 64847814) O °C 40 °C
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, min. — At maximum tilt angle, max.	Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes O °C 50 °C; (55 °C, see entry ID: 64847814) 0 °C 40 °C
Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min.	Yes Yes Yes No Yes Yes Yes Yes Yes Yes Ores; As of product version: 10 Yes; As of product version: 10 No Ore 50 °C; (55 °C, see entry ID: 64847814) O °C 40 °C

- At maximum tilt angle, max	35 °C
— At maximum tilt angle, max.     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	Na
<ul> <li>STEP 7 Basic (TIA Portal)</li> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No
STEP / Professional (TA Portal)     WinCC flexible Compact	No
WinCC flexible Standard	No
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	
<ul> <li>Number of online/runtime languages</li> </ul>	32
Project languages	
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
Pocket Word	Yes
Pocket Excel     PDF Viewer	Yes
Media Player	Yes
SIMATIC WinCC Sm@rtServer	Yes
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
— Number of bit messages	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, )	
Number of characters per message	80
<ul> <li>Number of process values per message</li> </ul>	8
<ul> <li>Acknowledgment groups</li> </ul>	Yes
Message indicator	Yes
Recipe management	

	000
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	0.040
Number of variables per device	2 048
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
• Arrays	Yes
Images	500
Number of configurable images	500
Permanent window/default	Yes
Global image	Yes
Pop-up images	Yes
Slide-in images	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	400
Number of objects per image     Tout fields	400
• 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	20
Number of complex objects per screen	20
Alarm view	Yes
Trend view	Yes
User view	
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
Bar graphs	Yes
Sliders     Deinter instrumente	Yes
Pointer instruments	Yes
Analog/digital clock Lists	Yes
Number of text lists per project	500
Number of entries per text list	500
Number of graphics lists per project	500
<ul> <li>Number of graphics lists per project</li> <li>Number of entries per graphics list</li> </ul>	500
Archiving	
Number of archives per device	50
Number of antries per archive	20 000
Manual of entries per archive     Message archive	Yes
Process value archive	Yes
	100

Archiving methods     — Sequential archive	Yes
— Sequential archive     — Short-term archive	Yes
Memory location	res
-	Yes
— Memory card	Yes
— USB memory — Ethernet	Yes
Data storage format	165
- CSV	Yes
— CSV — 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 Yes
• S7-1500	
• S7-1500 • S7-200	Yes
<ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> </ul>	Yes Yes
<ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> </ul>	Yes Yes Yes
<ul> <li>S7-1500</li> <li>S7-200</li> <li>S7-300/400</li> <li>LOGO!</li> <li>WinAC</li> </ul>	Yes Yes 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 Yes Yes 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 Yes Yes Yes; with SINUMERIK option package Yes
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<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 Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes
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<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 Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes
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<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 Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes 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 Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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<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 Yes Yes; with SINUMERIK option package Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes 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 Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes 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 Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes 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	330 mm
Height of housing front	241 mm
Mounting cutout, width	310 mm
Mounting cutout, height	221 mm
Overall depth	65 mm
Weights	
Weight (without packaging)	2.8 kg
Weight (with packaging)	3.5 kg

last modified:

5/27/2022 🖸