## 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	
Keys with LED	No	
<ul> <li>System keys</li> </ul>	No	
Numeric keyboard	Yes; Onscreen keyboard	
<ul> <li>alphanumeric keyboard</li> </ul>	Yes; Onscreen keyboard	
Touch operation		
<ul> <li>Design as touch screen</li> </ul>	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		

Type of supply voltage	DC
Type of supply voltage	24 V
Rated value (DC) permissible range, lower limit (DC)	24 V 19.2 V
permissible range, upper limit (DC)	19.2 V 28.8 V
Input current	
Current consumption (rated value)	0.85 A
Starting current inrush I <sup>2</sup> t	0.55 A <sup>2</sup> ·s
	0.5 A 'S
Power	20.101
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	A1
Info LED	No
Power LED	No
Error LED Acoustics	No
Acoustics     Buzzer	Νο
Buzzer     Speaker	Yes
-	Tes
Time of day	
Clock	Yes
<ul> <li>Hardware clock (real-time)</li> <li>Software clock</li> </ul>	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 20 mA interfaces (TTY) Number of parallel interfaces	
Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces	0
Number of parallel interfaces	0 0
Number of parallel interfaces Number of other interfaces	0 0 0
Number of parallel interfaces Number of other interfaces Number of SD card slots	0 0 0 2
Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces	0 0 0 2
Number of parallel interfaces         Number of other interfaces         Number of SD card slots         With software interfaces         Industrial Ethernet	0 0 2 No
Number of parallel interfaces         Number of other interfaces         Number of SD card slots         With software interfaces         Industrial Ethernet            • Industrial Ethernet status LED	0 0 2 No 2
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	0 0 2 No 2
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	0 0 2 No 2 2 2 2
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	0 0 2 No 2 2 2 2 Yes
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	0 0 2 No 2 2 2 2 Yes Yes
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	0 0 2 No 2 2 2 2 Yes Yes Yes Yes; As of WinCC V12
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	0 0 2 No 2 2 2 2 Yes Yes Yes Yes; As of WinCC V12 Yes
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)	0 0 2 No 2 2 2 2 Yes Yes Yes; As of WinCC V12 Yes Yes Yes Yes
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	0 0 2 No 2 2 2 2 Yes Yes Yes Yes; As of WinCC V12 Yes Yes Yes Yes Yes Yes
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	0 0 0 2 No 2 2 2 2 Yes Yes Yes Yes Yes Yes Yes Yes
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	0 0 2 No 2 2 2 2 Yes Yes Yes Yes Yes Yes Yes Yes
Number of parallel interfaces         Number of other interfaces         Number of SD card slots         With software interfaces         Industrial Ethernet         • Industrial Ethernet status LED         • Number of ports of the integrated switch         Protocols         PROFINET         Supports protocol for PROFINET IO         IRT         PROFIBUS         EtherNet/IP         MPI         Protocols (Ethernet)         • TCP/IP         • DHCP         • SNMP         • DCP	0 0 2 No 2 2 2 2 4 Yes Yes Yes Yes Yes Yes Yes Yes
Number of parallel interfaces         Number of other interfaces         Number of SD card slots         With software interfaces         Industrial Ethernet         • Industrial Ethernet status LED         • Number of ports of the integrated switch         Protocols         PROFINET         Supports protocol for PROFINET IO         IRT         PROFIBUS         EtherNet/IP         MPI         Protocols (Ethernet)         • TCP/IP         • DHCP         • SNMP         • DCP         • LLDP	0 0 2 No 2 2 2 2 Yes Yes Yes Yes Yes Yes Yes Yes
Number of parallel interfaces         Number of other interfaces         Number of SD card slots         With software interfaces         Industrial Ethernet         • Industrial Ethernet status LED         • Number of ports of the integrated switch         Protocols         PROFINET         Supports protocol for PROFINET IO         IRT         PROFIBUS         EtherNet/IP         MPI         Protocols (Ethernet)         • TCP/IP         • DHCP         • SNMP         • DCP         • LLDP         WEB characteristics	0 0 2 No 2 2 2 2 Yes Yes Yes Yes Yes Yes Yes Yes
Number of parallel interfaces         Number of other interfaces         Number of SD card slots         With software interfaces         Industrial Ethernet         • Industrial Ethernet status LED         • Number of ports of the integrated switch         Protocols         PROFINET         Supports protocol for PROFINET IO         IRT         PROFIBUS         EtherNet/IP         MPI         Protocols (Ethernet)         • TCP/IP         • DHCP         • SNMP         • DCP         • LLDP	0 0 2 No 2 2 2 2 4 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 ℃
At maximum intrangle, 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	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 Regic memory expandable Versibles Number of variables per device Number of variables per device Number of variables per device Number of variables per device Structures Structures Structures Number of configurable images Number of configurable images Number of ondigurable images Number of objects per image Number of objects ves Number of objects ves Number of objects ves Number of openets objects Number of entries per openet 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	-	
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• 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
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• 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
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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
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• 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		
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• 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		
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• 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 — 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
<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 Yes Yes Yes; with SINUMERIK option package 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> </ul>	Yes Yes Yes Yes; with SINUMERIK option package 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> </ul>	Yes Yes Yes Yes; with SINUMERIK option package 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> </ul>	Yes Yes Yes Yes; with SINUMERIK option package 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> </ul>	Yes Yes Yes Yes; with SINUMERIK option package 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> </ul>	Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes 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 Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No 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 Yes Yes Yes; with SINUMERIK option package 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>	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No 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	Yes Yes Yes Yes; with SINUMERIK option package 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 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
<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 <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</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)</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:

10/7/2021 🖸