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)		
 Horizontal image resolution 	1 280 pixel	
 Vertical image resolution 	800 pixel	
Backlighting		
 MTBF backlighting (at 25 °C) 	80 000 h	
Backlight dimmable	Yes; 0-100 %	
Control elements		
Keyboard fonts		
 Function keys 		
 — Number of function keys 	0	
 — Number of function keys with LEDs 	0	
Keys with LED	No	
 System keys 	No	
Numeric keyboard	Yes; Onscreen keyboard	
 alphanumeric keyboard 	Yes; Onscreen keyboard	
Touch operation		
 Design as touch screen 	Yes; Analog-resistive	
Expansions for operator control of the process		
 DP direct LEDs (LEDs as S7 output I/O) 		
— F1Fx	0	
 Direct keys (keys as S7 input I/O) 		
— F1Fx	0	
 Direct keys (touch buttons as S7 input I/O) 	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 ² t	0.55 A ² ·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
 Hardware clock (real-time) Software clock 	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
 JavaScript 	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	
 Languages per project 	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
Pocket Word	Yes
Pocket Excel DE Viewer	Yes
PDF ViewerMedia Player	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	
 Number of alarm classes 	32
Bit messages	Yes
 Number of bit messages 	4 000
Analog messages	Yes
— Number of analog messages	200
S7 alarm number procedure	Yes
 System messages HMI System event, more (SIMATIC S7, SINUMERIK, 	Yes
SIMOTION,)	
 Number of characters per message 	80
 Number of process values per message 	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
 Linit values Mutiplexing Ves Structures Ves Arrays Ves Arrays Ves Arrays Ves Arrays Ves Arrays Ves Arrays Ves Configurable images Solute images Permanent window/default Ves Solute in images Ves Image entities in the PLC Ves Image entities in the PLC Ves Total fields Ves Context fields Ves Solute in fields Ves Solute information Ves Context image adjects Ves Context image adjects Ves Solute information Ves Solute informatinformatin		
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		
 Structures Ves Arrays Ves Arrays Ves Arrays Ves Analys Ves Structures Operangent window/default Yes Structures Permanent window/default Yes Structures Permanent window/default Yes Structures Permanent window/default Yes Structures Permanent window/default Yes Structures Structures Yes Structures Structures Yes Structures Number of objects per image 400 Text fields Yes Symbolic 10 fields (graphics list) Yes Suttons Genemic objects Yes Somethic objects Yes Commets Yes Somethic objects Yes Structures Yes Str		
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		
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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
 using external storage medium 	Yes
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
	Yes Yes
• S7-1500	
• S7-1500 • S7-200	Yes
 S7-1500 S7-200 S7-300/400 	Yes Yes
 S7-1500 S7-200 S7-300/400 LOGO! 	Yes Yes Yes
 S7-1500 S7-200 S7-300/400 LOGO! WinAC 	Yes Yes Yes
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK 	Yes Yes Yes Yes; with SINUMERIK option package
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION 	Yes Yes Yes Yes; with SINUMERIK option package Yes
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes
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 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) 	Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes
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 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 	Yes Yes Yes; with SINUMERIK option package Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 	Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 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 🖸