## **SIEMENS**

## **Data sheet**



Figure similar

SIPLUS HMI TP1900 Comfort based on 6AV2124-0UC02-0AX1 with conformal coating, 0...+45 °C, Comfort Panel, touch operation, 19" widescreen TFT display, 16 million colors,PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable as of WinCC Comfort V14 SP1 with HSP

General information		
Product type designation	TP1900 Comfort	
Display		
Design of display	TFT	
Screen diagonal	18.5 in	
Display width	409.8 mm	
Display height	230.4 mm	
Number of colors	16 777 216	
Resolution (pixels)		
<ul> <li>Horizontal image resolution</li> </ul>	1 366 pixel	
Vertical image resolution	768 pixel	
Backlighting		
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 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	
System keys	No	
<ul> <li>Numeric keyboard</li> </ul>	Yes; Onscreen keyboard	
alphanumeric keyboard	Yes; Onscreen keyboard	
Touch operation		
Design as touch screen	Yes; Analog-resistive	
Expansions for operator control of the process		
Direct keys (touch buttons as S7 input I/O)	40	
Installation type/mounting		
Mounting position	vertical	
Mounting in portrait format possible	Yes	
Mounting in landscape format possible	Yes	
maximum permissible angle of inclination without external ventilation	35°	
Supply voltage	Supply voltage	
Type of supply voltage	DC	
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	

Input current	
Current consumption (rated value)	1.7 A
Starting current inrush I²t	0.5 A <sup>2</sup> ·s
Power	
	41 W
Active power input, typ.	41 W
Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	24 Mbyte
Type of output	
Info LED	No
Power LED	No
Error LED	No
Acoustics	
Buzzer	No
Speaker	Yes
Time of day	
Clock	
	Yes
<ul><li>Hardware clock (real-time)</li><li>Software clock</li></ul>	Yes
Software clock     retentive	
	Yes; Back-up duration typically 6 weeks Yes
synchronizable	162
Interfaces	
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port
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
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	2
With software interfaces	No
Industrial Ethernet	
Industrial Ethernet status LED	3
<ul> <li>Number of ports of the integrated switch</li> </ul>	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	
TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• SINMP • DCP	Yes
• LLDP	Yes
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WEB characteristics	Von
• HTTP	Yes
• HTTPS	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
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
<ul> <li>Limit class B, for use in residential areas</li> </ul>	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
Enclosure Type 4 at the front	Yes
Enclosure Type 4x at the front	Yes
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
Operation (vertical installation)	
— For vertical installation, min.	0 °C; = Tmin
<ul> <li>For vertical installation, max.</li> </ul>	45 °C; = Tmax
Operation (max. tilt angle)	
— At maximum tilt angle, min.	0 °C; = Tmin
— At maximum tilt angle, max.	40 °C; = Tmax
Operation (vertical installation, portrait format)	
<ul><li>For vertical installation, min.</li></ul>	0 °C; = Tmin
— For vertical installation, max.	40 °C; = Tmax
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	0 °C; = Tmin
— At maximum tilt angle, max.	35 °C; = Tmax
Ambient temperature during storage/transportation	00.00
• min.	-20 °C
• max.	60 °C
Altitude during operation relating to sea level	F 000 m
Installation altitude above sea level, max.      Ambient dir temperature baremetria pressure.	5 000 m
<ul> <li>Ambient air temperature-barometric pressure- altitude</li> </ul>	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin
	(Tmax - 20 K) at 755 ft a 550 ft a (12 500 ft +5 500 ft) // Tftill (Tmax -20 K) at 658 hPa 540 hPa (+3 500 ft +5 000 ft)
Relative humidity	
With condensation, tested in accordance with IEC	100 %; RH incl. condensation/frost (no commissioning under
60068-2-38, max.	condensation conditions)
Resistance	
Coolants and lubricants	Was had disast and all death to the
Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
<ul> <li>to biologically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
<ul> <li>to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
<ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
<ul> <li>to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request

<ul> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
<ul> <li>to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
<ul> <li>Against chemically active substances acc. to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04</li> </ul>	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> </ul>	Yes; Class 2 for high reliability
<ul> <li>Protection against fouling acc. to EN 60664-3</li> </ul>	Yes; Type 1 protection
<ul> <li>Military testing according to MIL-I-46058C, Amendment 7</li> </ul>	Yes; Discoloration of coating possible during service life
<ul> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</li> </ul>	Yes; Conformal coating, Class A
Operating systems	
proprietary	No
proprietary  pre-installed operating system	NO
Windows CE	Yes; Windows Embedded Compact 2013
	res, willdows Embedded Compact 2013
configuration / header	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	
STEP 7 Basic (TIA Portal)	No 
<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No
,	
WinCC flexible Compact	No
<ul><li>WinCC flexible Compact</li><li>WinCC flexible Standard</li></ul>	No
<ul><li>WinCC flexible Compact</li><li>WinCC flexible Standard</li><li>WinCC flexible Advanced</li></ul>	
<ul><li>WinCC flexible Compact</li><li>WinCC flexible Standard</li></ul>	No No No
<ul> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> <li>WinCC Comfort (TIA Portal)</li> </ul>	No No
<ul> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> </ul>	No No No
<ul> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> <li>WinCC Comfort (TIA Portal)</li> </ul>	No No No Yes; V14 SP1 HSP and higher
<ul> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> <li>WinCC Comfort (TIA Portal)</li> <li>WinCC Advanced (TIA Portal)</li> </ul>	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
<ul> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> <li>WinCC Comfort (TIA Portal)</li> <li>WinCC Advanced (TIA Portal)</li> <li>WinCC Professional (TIA Portal)</li> </ul>	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal)  Languages	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
WinCC flexible Compact     WinCC flexible Standard     WinCC flexible Advanced     WinCC Basic (TIA Portal)     WinCC Comfort (TIA Portal)     WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)  Languages Online languages	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
WinCC flexible Compact     WinCC flexible Standard     WinCC flexible Advanced     WinCC Basic (TIA Portal)     WinCC Comfort (TIA Portal)     WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)  Languages Online languages     Number of online/runtime languages	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
WinCC flexible Compact     WinCC flexible Standard     WinCC flexible Advanced     WinCC Basic (TIA Portal)     WinCC Comfort (TIA Portal)     WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)  Languages Online languages     Number of online/runtime languages Project languages	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher 32
WinCC flexible Compact     WinCC flexible Standard     WinCC flexible Advanced     WinCC Basic (TIA Portal)     WinCC Comfort (TIA Portal)     WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)  Languages Online languages     Number of online/runtime languages Project languages     Languages per project	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher 32
WinCC flexible Compact     WinCC flexible Standard     WinCC flexible Advanced     WinCC Basic (TIA Portal)     WinCC Comfort (TIA Portal)     WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)  Languages Online languages     Number of online/runtime languages Project languages     Languages per project Functionality under WinCC (TIA Portal)	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher 32
WinCC flexible Compact     WinCC flexible Standard     WinCC flexible Advanced     WinCC Basic (TIA Portal)     WinCC Comfort (TIA Portal)     WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)  Languages Online languages     Number of online/runtime languages Project languages     Languages e Languages	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher 32
WinCC flexible Compact     WinCC flexible Standard     WinCC flexible Advanced     WinCC Basic (TIA Portal)     WinCC Comfort (TIA Portal)     WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)  Languages Online languages     Number of online/runtime languages Project languages     Languages e Languages Applications/options	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher  32  32  Yes
WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal)  Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages Languages Under WinCC (TIA Portal) Libraries  Applications/options Web browser	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher  32  Yes  Yes
WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal)  Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages Project VinCC (TIA Portal)  Libraries  Applications/options Web browser Pocket Word	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher 32 32 Yes Yes
WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal)  Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages Languages Project Functionality under WinCC (TIA Portal)  Libraries  Applications/options Web browser Pocket Word Pocket Excel PDF Viewer	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher  32  Yes  Yes  Yes  Yes
WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal)  Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages Project Functionality under WinCC (TIA Portal)  Libraries  Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher  32  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal)  Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages Project Vinctionality under WinCC (TIA Portal)  Libraries  Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher  32  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal)  Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages Vanctionality under WinCC (TIA Portal)  Libraries  Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher  32  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
WinCC flexible Compact WinCC flexible Standard WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal)  Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages Project VIA Portal Libraries  Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher  32  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
WinCC flexible Compact WinCC flexible Standard WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal)  Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages Languages Project WinCC (TIA Portal)  Libraries  Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts  Task planner	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher  32  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
WinCC flexible Compact WinCC flexible Standard WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal)  Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages Project VIA Portal Libraries  Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts	No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher  32  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye

Halp system	
Help system  • Number of characters per info text	320
Message system	020
Number of alarm classes	32
Bit messages	<u></u>
Number of bit messages	6 000
Analog messages	
Number of analog messages	200
S7 alarm number procedure	Yes
System messages HMI	Yes
• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)	Yes
<ul> <li>Number of characters per message</li> </ul>	80
<ul> <li>Number of process values per message</li> </ul>	8
<ul> <li>Acknowledgment groups</li> </ul>	Yes
Message indicator	Yes
Message buffer	
<ul><li>Number of entries</li></ul>	1 024
<ul><li>— Circulating buffer</li></ul>	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management	
Number of recipes	500
Data records per recipe	1 000
Entries per data record	2 000
Size of internal recipe memory	4 Mbyte
Recipe memory expandable	Yes
Variables	1000
Number of variables per device	4 096
Number of variables per screen	400
• Limit values	Yes
Multiplexing     Multiplexing	Yes
• Structures	Yes
• Arrays	Yes
Images  • Number of configurable images	750
Permanent window/default	Yes
Global image	Yes
Pop-up images	Yes
Slide-in images	Yes
Image selection by PLC	Yes
Image selection by PEC     Image number in the PLC	Yes
Image objects	
Number of objects per image	600
Text fields	Yes
• I/O fields	Yes
Graphic I/O fields (graphics list)	Yes
Symbolic I/O fields (text list)	Yes
Date/time fields	Yes
Switches	Yes
Buttons	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	
Number of complex objects per screen	40
Alarm view	Yes
Trend view	Yes
User view	Yes
Status/control	Yes

<ul> <li>Sm@rtClient view</li> </ul>	Yes
Recipe view	Yes
<ul><li>f(x) trend view</li></ul>	Yes
<ul> <li>System diagnostics view</li> </ul>	Yes
Media Player	Yes
HTML browser	Yes
<ul> <li>PDF display</li> </ul>	Yes
IP camera display	Yes
Bar graphs	Yes
• Sliders	Yes
<ul> <li>Pointer instruments</li> </ul>	Yes
Analog/digital clock	Yes
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
Archiving Archiving	
Number of archives per device	50
Number of arctives per device     Number of entries per archive	50 000
Message archive	Yes
Process value archive	Yes
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Archiving methods     Sequential archive	Von
— Sequential archive	Yes
— Short-term archive	Yes
Memory location	V
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	
— CSV	Yes
— TXT	Yes
— TXT	Yes
— TXT — RDB  Security  • Number of user groups	Yes
— TXT — RDB Security	Yes Yes
— TXT — RDB  Security  • Number of user groups	Yes Yes 50
— TXT — RDB  Security  • Number of user groups • Number of user rights	Yes Yes 50 32
- TXT - RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon	Yes Yes 50 32 50
- TXT - RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import	Yes Yes 50 32 50 Yes
- TXT - RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon	Yes Yes 50 32 50 Yes
- TXT - RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer	Yes Yes  50 32 50 Yes Yes
- TXT - RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms	Yes Yes  50 32 50 Yes Yes Yes
TXT RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log)	Yes Yes  50 32 50 Yes Yes Yes Yes
- TXT - RDB  Security  Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon  Logging through printer Alarms Report (shift log) Hardcopy	Yes Yes  50 32 50 Yes Yes Yes Yes
- TXT - RDB  Security  Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon  Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file	Yes Yes  50 32 50 Yes Yes Yes Yes Yes
TXT RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log) • Hardcopy • Electronic print to file  Character sets	Yes Yes  50 32 50 Yes Yes Yes Yes
TXT RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log) • Hardcopy • Electronic print to file  Character sets • Keyboard fonts	Yes Yes  50 32 50 Yes
TXT RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log) • Hardcopy • Electronic print to file  Character sets • Keyboard fonts US English	Yes Yes  50 32 50 Yes
TXT RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log) • Hardcopy • Electronic print to file  Character sets • Keyboard fonts US English  Transfer (upload/download)	Yes Yes  50 32 50 Yes
- TXT - RDB  Security  Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon  Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file  Character sets Keyboard fonts - US English  Transfer (upload/download) MPI/PROFIBUS DP	Yes Yes  50 32 50 Yes
TXT RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log) • Hardcopy • Electronic print to file  Character sets • Keyboard fonts US English  Transfer (upload/download) • MPI/PROFIBUS DP • USB • Ethernet	Yes Yes  50 32 50 Yes
TXT RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log) • Hardcopy • Electronic print to file  Character sets • Keyboard fonts US English  Transfer (upload/download) • MPI/PROFIBUS DP • USB • Ethernet • using external storage medium	Yes Yes  50 32 50 Yes
TXT RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log) • Hardcopy • Electronic print to file  Character sets • Keyboard fonts US English  Transfer (upload/download) • MPI/PROFIBUS DP • USB • Ethernet • using external storage medium  Process coupling	Yes Yes  50 32 50 Yes
— TXT — RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log) • Hardcopy • Electronic print to file  Character sets • Keyboard fonts — US English  Transfer (upload/download) • MPI/PROFIBUS DP • USB • Ethernet • using external storage medium  Process coupling • S7-1200	Yes Yes  50 32 50 Yes
— TXT — RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log) • Hardcopy • Electronic print to file  Character sets • Keyboard fonts — US English  Transfer (upload/download) • MPI/PROFIBUS DP • USB • Ethernet • using external storage medium  Process coupling • S7-1200 • S7-1500	Yes Yes Yes  50 32 50 Yes
TXT RDB  Security  Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon  Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file  Character sets Keyboard fonts US English  Transfer (upload/download) MPI/PROFIBUS DP USB Ethernet using external storage medium  Process coupling S7-1200 S7-1500 S7-200	Yes Yes Yes  50 32 50 Yes
— TXT — RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log) • Hardcopy • Electronic print to file  Character sets • Keyboard fonts — US English  Transfer (upload/download) • MPI/PROFIBUS DP • USB • Ethernet • using external storage medium  Process coupling • S7-1200 • S7-200 • S7-300/400	Yes Yes  50 32 50 Yes
— TXT — RDB  Security  • Number of user groups • Number of users • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log) • Hardcopy • Electronic print to file  Character sets • Keyboard fonts — US English  Transfer (upload/download) • MPI/PROFIBUS DP • USB • Ethernet • using external storage medium  Process coupling • S7-1200 • S7-1500 • S7-300/400 • LOGO!	Yes Yes  50 32 50 Yes
— TXT — RDB  Security  • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon  Logging through printer • Alarms • Report (shift log) • Hardcopy • Electronic print to file  Character sets • Keyboard fonts — US English  Transfer (upload/download) • MPI/PROFIBUS DP • USB • Ethernet • using external storage medium  Process coupling • S7-1200 • S7-200 • S7-300/400	Yes Yes  50 32 50 Yes

• SIMOTION	Yes
<ul><li>Allen Bradley (EtherNet/IP)</li></ul>	Yes
<ul> <li>Allen Bradley (DF1)</li> </ul>	Yes
Mitsubishi (MC TCP/IP)	Yes
<ul><li>Mitsubishi (FX)</li></ul>	Yes
<ul><li>OMRON (FINS TCP)</li></ul>	No
<ul> <li>OMRON (LINK/Multilink)</li> </ul>	Yes
<ul> <li>Modicon (Modbus TCP/IP)</li> </ul>	Yes
<ul><li>Modicon (Modbus)</li></ul>	Yes
OPC UA Client	Yes
OPC UA Server	Yes
Service tools/configuration aids	
<ul> <li>Backup/Restore manually</li> </ul>	Yes
<ul> <li>Backup/Restore automatically</li> </ul>	Yes
<ul> <li>Simulation</li> </ul>	Yes
Device switchover	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB
SIMATIC HMI CF memory card Compact Flash Card	No
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	483 mm
Height of housing front	337 mm
Mounting cutout, width	465 mm
Mounting cutout, height	319 mm
Overall depth	75 mm
Weights	
Weight (without packaging)	5.6 kg
3 (	3.0.0

last modified:

10/7/2021