SIEMENS

Data sheet



SIPLUS HMI KTP1200 Basic based on 6AV2123-2MB03-0AX0 with conformal coating, -10...+50 °C, key/touch operation, 12" TFT display, 65536 colors PROFINET interface, configurable as of WinCC Basic V13/STEP 7 Basic V13, contains open source software, which is provided free of charge see enclosed CD-ROM

Product type designation	KTP1200 Basic color PN
isplay	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	12 in
Display width	261.1 mm
Display height	163.2 mm
Number of colors	65 536
Resolution (pixels)	
 Horizontal image resolution 	1 280 pixel
 Vertical image resolution 	800 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	20 000 h
Backlight dimmable	Yes
ontrol elements	
Keyboard fonts	
Function keys	
Number of function keys	10
 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
nstallation type/mounting	
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
upply 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
put current	
Current consumption (rated value)	510 mA
Starting current inrush I²t	0.2 A ² ·s

Active power input, typ.	12.2 W
Processor	
Processor type	ARM
Memory	7 II AIVI
Flash	Yes
RAM	Yes
Memory available for user data	10 Mbyte
Type of output	10 Mbyte
Acoustics	
Buzzer	Yes
Speaker	No
Time of day	140
Clock	
Hardware clock (real-time)	Yes
Software clock (real-time)	Yes
• retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	1
Number of RS 485 interfaces	0
Number of RS 422 interfaces	0
Number of RS 232 interfaces	0
Number of USB interfaces	1; Up to 16 GB
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	0
With software interfaces	No
Industrial Ethernet	
 Industrial Ethernet status LED 	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	No
IRT	No
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
LLDP WEB characteristics	Yes
HTTP	No
• HTML	No
Redundancy mode	
Media redundancy	
— MRP	No
Further protocols	
• CAN	No
• MODBUS	Yes; Modicon (MODBUS TCP/IP)
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	No
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
()	

Enclosure Type 4 at the front Sulted for indoor use Sulted for indoor use Sulted for outdoor use Ambient Emperature cump operation Operation (errors all installation) — For vertical installation, max. Operation (errors all single) — At miximum till angle, min. — At miximum till angle, min. — For vertical installation, max. Operation (errors all single) — At miximum till angle, min. — For vertical installation, max. Operation (errors all single) — For vertical installation, max. Operation (errors all single) — At miximum till angle, min. — For vertical installation, max. Operation (errors all single) — At miximum till angle, min. — At miximum till angle, errors — At miximum till angle, min. — At miximum till angle, m	IP (rear)	IP20
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Relative humidity • With condensation, tested in accordance with IEC 6008-2-38, max. 490 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m). // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m). // Tmin (Tmax -10 K) at 658 hPa 540 hPa (+3 500 m). // Tmin +5 000 m]. // Tmin +5 00 m]. // Tmin	,	
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With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 6072	antodo	
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Resistance Coolants and lubricants		
Coolants and lubricants Resistant to commercially available coolants and lubricants Use in stationary industrial systems - to biologically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to mechanically active substances according to EN 60721-3-3 Use on ships/at sea - to biologically active substances according to EN 60721-3-6 - to chemically active substances according to EN 60721-3-6 - to chemically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to chemically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically a		state), horizontal installation
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EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coatting • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6B3 mol and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B3 incl. sand, dust, * Yes; Class 6B3 incl. sand,	•	
EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-1-46058C, Amendment 7 • Qualification and Performance of Electrical (severity degree 3); * Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fu		
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Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 60664-3 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical		
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EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 6086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 3 (excluding trichlorethylene) 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) * The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Conformal coating, Class A	Use on ships/at sea	
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EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical 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) * The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A	Usage in industrial process technology	
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71.04 level LC3 (salt spray) and level LB3 (oil) Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Vest Class 2 for high reliability Yes; Type 1 protection Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A		
Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A		
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 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A 		Yes; Class 2 for high reliability
Amendment 7 ● Qualification and Performance of Electrical Yes; Conformal coating, Class A	 Protection against fouling acc. to EN 60664-3 	
Qualification and Performance of Electrical Yes; Conformal coating, Class A		Yes; Discoloration of coating possible during service life
		Yes: Conformal coating, Class A
Insulating Compound for Printed Board Assemblies		. 55, 55, 65, 65, 65, 65, 65, 65, 65, 65,

according to IPC-CC-830A	
Operating systems	
proprietary	Yes
pre-installed operating system	
Windows CE	No
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) 	Yes; via integrated WinCC Basic (TIA Portal)
 STEP 7 Professional (TIA Portal) 	Yes; via integrated WinCC Basic (TIA Portal)
 WinCC flexible Compact 	No
 WinCC flexible Standard 	No
 WinCC flexible Advanced 	No
WinCC Basic (TIA Portal)	Yes
WinCC Comfort (TIA Portal)	Yes
WinCC Advanced (TIA Portal) WinCO Professional (TIA Portal)	Yes
WinCC Professional (TIA Portal)	Yes
Languages	
Online languages	40
Number of online/runtime languages Project languages	10
Project languages	32
Languages per project	32
Functionality under WinCC (TIA Portal)	· ·
Libraries	Yes
Applications/options	V
Web browser Number of Visual Pasis Carinta	Yes
Number of Visual Basic Scripts	No Yes
Task planner	Yes No
time-controlledtask-controlled	Yes
Help system	Yes
Number of characters per info text	500
Message system	
Number of alarm classes	32
Bit messages	
Number of bit messages	1 000
Analog messages	
Number of analog messages	25
S7 alarm number procedure	No
System messages HMI	Yes
 System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) 	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
Number of characters per message	80
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
Message buffer Number of entries	256
Number of entries Grounding buffer.	256 Von
Circulating bufferretentive	Yes Yes
maintenance-free	Yes
Recipe management	100
Number of recipes	50
Data records per recipe	100
Entries per data record	100
Size of internal recipe memory	256 kbyte
Recipe memory expandable	No
Variables	
Number of variables per device	800
·	

No contract of contract to a contract	400
Number of variables per screen	100
• Limit values	Yes
Multiplexing	Yes
Structures	No
• Arrays	Yes
Images	250
Number of configurable imagesPermanent window/default	Yes
	Yes
Global imageImage selection by PLC	Yes
Image selection by PLC Image number in the PLC	Yes
Image objects	165
Number of objects per image	100
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	10
Alarm view	Yes
Trend view	Yes
User view	Yes
 Status/control 	No
 Sm@rtClient view 	No
Recipe view	Yes
f(x) trend view	No
 System diagnostics view 	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
Media Player	No
Bar graphs	Yes
 Sliders 	No
- CIIGOTO	
Pointer instruments	No
	No No
Pointer instrumentsAnalog/digital clockLists	
 Pointer instruments Analog/digital clock Lists Number of text lists per project 	No 300
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list 	No 300 100
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project 	No 300 100 100
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list 	No 300 100
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving	No 300 100 100 100
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device 	No 300 100 100 100 2
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive 	No 300 100 100 100 2 10 000
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive 	No 300 100 100 100 2 10 000 Yes
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive 	No 300 100 100 100 2 10 000
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods 	No 300 100 100 100 2 10 000 Yes Yes
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods — Sequential archive 	No 300 100 100 100 2 10 000 Yes Yes Yes
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive 	No 300 100 100 100 2 10 000 Yes Yes
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods — Sequential archive — Short-term archive Memory location 	No 300 100 100 100 100 2 10 000 Yes Yes Yes Yes
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card 	No 300 100 100 100 2 10 000 Yes Yes Yes No
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card USB memory 	No 300 100 100 100 2 10 000 Yes Yes Yes No Yes
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card USB memory Ethernet 	No 300 100 100 100 2 10 000 Yes Yes Yes No
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card USB memory Ethernet Data storage format 	No 300 100 100 100 2 10 000 Yes Yes Yes No Yes No
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card USB memory Ethernet Data storage format CSV 	No 300 100 100 100 100 2 10 000 Yes Yes Yes No No No
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card USB memory Ethernet Data storage format CSV TXT 	No 300 100 100 100 100 2 10 000 Yes Yes Yes No No Yes No No Yes
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card USB memory Ethernet Data storage format CSV TXT RDB 	300 100 100 100 100 2 10 000 Yes Yes Yes No No No
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card USB memory Ethernet Data storage format CSV TXT RDB Security	300 100 100 100 100 2 10 000 Yes Yes Yes No No Yes No
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card USB memory Ethernet Data storage format CSV TXT RDB Security Number of user groups 	300 100 100 100 100 2 10 000 Yes Yes Yes No No Yes No No Yes No
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card USB memory Ethernet Data storage format CSV TXT RDB Security Number of user groups Number of user rights 	300 100 100 100 2 2 10 000 Yes Yes Yes No No Yes No No Ses No No Ses No
 Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card USB memory Ethernet Data storage format CSV TXT RDB Security Number of user groups 	300 100 100 100 100 2 10 000 Yes Yes Yes No No Yes No No Yes No

SIMATIC Logon	No
Character sets	
Keyboard fonts	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	No
• USB	No
Ethernet	Yes
 using external storage medium 	No
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
WinAC	Yes
SINUMERIK	Yes; No access to NCK data
• SIMOTION	Yes
 Allen Bradley (EtherNet/IP) 	Yes
 Allen Bradley (DF1) 	No
Mitsubishi (MC TCP/IP)	Yes
Mitsubishi (FX)	No
OMRON (FINS TCP)	No
 OMRON (LINK/Multilink) 	No
 Modicon (Modbus TCP/IP) 	Yes
Modicon (Modbus)	No
Service tools/configuration aids	
 Backup/Restore manually 	Yes
 Backup/Restore automatically 	No
 Simulation 	Yes
Device switchover	Yes
Peripherals/Options	
Printer	No
SIMATIC HMI MM memory card: Multi Media Card	No
SIMATIC HMI SD memory card: Secure Digital memory card	No
USB memory	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	Yes
Aluminum	No
Stainless steel	No
Dimensions	
Width of the housing front	330 mm
Height of housing front	245 mm
Mounting cutout, width	310 mm
Mounting cutout, height	221 mm
Overall depth	60 mm
Weights	
Weight (without packaging)	1 710 g
Weight (with packaging)	2.2 kg
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last modified:	10/8/2021 C