SIEMENS

Data sheet

SIMATIC HMI KP1200 Comfort, Comfort Panel, key 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



Product type designation KP1200 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) 4 Horizontal image resolution 5 Vertical image resolution 800 pixel Backlighting 6 MTBF backlighting (at 25 °C) 8 Backlight dimmable 7 Ves; 0-100 % Control elements Keyboard fonts 7 Function keys Number of function keys with LEDs 8 Keys with LED 9 System keys Number of function keys with LEDs 8 System keys Numeric keyboard 9 alphanumeric keyboard 9 Lesign as touch screen Expansions for operator control of the process 9 Diffect LEDs (LEDs as \$7 output I/O) F1Fx 9 Direct keys (touch buttons as \$7 input I/O) P1Fx 9 Direct keys (touch buttons as \$7 input I/O) P1Fx 9 Direct keys (touch buttons as \$7 input I/O) P1Fx 9 Direct keys (touch buttons as \$7 input I/O) P1Fx 9 Direct keys (touch buttons as \$7 input I/O) P1Fx 9 Direct keys (touch buttons as \$7 input I/O) P5 Direct keys (touch buttons as \$7 input I/O) P6 Direct keys (touch buttons as \$7 input I/O) P7 Direct keys (touch buttons as \$7 input I/O) No Mounting in portrait format possible Mounting on landscape format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in landscape format possible	General information		
Design of display	Product type designation	KP1200 Comfort	
Screen diagonal 12.1 in	Display		
Display width Display height Display	Design of display	TFT	
Display height Number of colors Resolution (pixels) Horizontal image resolution Vertical image resolution Number of vertical image resolution Number of vertical image resolution Backlighting MTBF backlighting (at 25 °C) Backlight dimmable Ves; 0-100 % Control elements Keyboard fonts Function keys Number of function keys Number of function keys Number of function keys with LEDs System keys Number of ves; o-100 % Neys with LED Yes System keys Yes Numeric keyboard Yes; similar to mobile phone Touch operation Design as touch screen No; without Expansions for operator control of the process Defined LEDs (LEDs as S7 output I/O) F1Fx Direct keys (keys as S7 input I/O) F1Fx Direct keys (keys as S7 input I/O) OF1Fx Direct keys (touch buttons as S7 input I/O) OF1Fx Direct keys (touch buttons as S7 input I/O) No Mounting position Wertical Mounting in portrait format possible No Mounting in landscape format possible maximum permissible angle of inclination without external veriliation No	Screen diagonal	12.1 in	
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Resolution (pixels) • Horizontal image resolution • Vertical image resolution • Vertical image resolution 800 pixel • MTBF backlighting (at 25 °C) • 80 000 h • Backlight dimmable **Ves; 0-100 %* **Control elements Keyboard fonts • Function keys — Number of function keys — Number of function keys with LEDs 34 • Keys with LED • System keys • Numeric keyboard • System keys • Numeric keyboard • Pes; similar to mobile phone **Touch operation • Design as touch screen **De direct LEDs (LEDs as S7 output I/O) — F1FX • Direct keys (keys as S7 input I/O) — F1FX • Direct keys (touch buttons as S7 input I/O) 0 Installation type/mounting **Mounting in portrait format possible Mounting in portrait format possible maximum permissible angle of inclination without external vertilation **360 pixel **Second Time Possible Mounting permissible angle of inclination without external vertilation **360 pixel **Second Time Possible Mounting permissible angle of inclination without external vertilation **360 pixel **Second Time Possible Mounting permissible angle of inclination without external vertilation **370 pixel **Second Time Possible Mounting permissible angle of inclination without external vertilation **380 pixel **Second Time Possible Mounting permissible angle of inclination without external **380 pixel	Display height	163.2 mm	
Horizontal image resolution Vertical image resolution Not TBF backlighting (at 25 °C) Backlighting (at 25 °C) Backlighting (at 25 °C) Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts Function keys Number of function keys Number of function keys with LEDs System keys System keys Numeric keyboard Yes System keys Numeric keyboard Yes; similar to mobile phone Touch operation Design as touch screen Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) -F1FX Direct keys (keys as S7 input I/O) -F1FX Direct keys (touch buttons as S7 input I/O) -F1FX Noting to the process Well mounting foil freet mounting Mounting position Vertical Wall mounting/direct mounting Mounting in portrait format possible maximum permissible angle of inclination without external vertical Noting Noting posmission and permissible angle of inclination without external vertical So One Noting Posmission Noting posmission and permissible angle of inclination without external vertical So One Noting Posmission Noting posmission and permissible angle of inclination without external vertical So One Noting Posmission Noting posmission Noting posmission and permissible angle of inclination without external vertical So One Noting Posmission Notin	Number of colors	16 777 216	
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Backlighting MTBF backlighting (at 25 °C) Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts Function keys Number of function keys Number of function keys with LEDs System keys Numeric keyboard Alphanumeric keyboard Alphanumeric keyboard Pes; similar to mobile phone Touch operation Design as touch screen No; without Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) F1Fx Alphanumeric keys (seys as S7 input I/O) F1Fx Direct keys (touch buttons as S7 input I/O) Distallation type/mounting Mounting position Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Mounting in solution inclination without external ventilation Mounting in landscape format possible maximum permissible angle of inclination without external ventilation	 Horizontal image resolution 	1 280 pixel	
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Mounting position Wall mounting/direct mounting No Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation vertical No No 35°		0	
Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation No Yes 35°	Installation type/mounting		
Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Yes 35°		vertical	
Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Yes 35°	Wall mounting/direct mounting	No	
maximum permissible angle of inclination without external ventilation 35°		No	
ventilation		Yes	
Supply voltage		35°	
	Supply voltage		

Tune of complex with	DC
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)	0.85 A
Starting current inrush I²t	0.5 A ² ·s
Power	
Active power input, typ.	20 W
Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	
Info LED	Yes
Power LED	No
Error LED	No
Acoustics	
Buzzer	No
• Speaker	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	Yes
• retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	1; 2 ports (switch)
Number of RS 485 interfaces	1: RS 422 / 485 combined
Number of RS 422 interfaces	1
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 parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	2
With software interfaces	No No
Industrial Ethernet	
Industrial Ethernet status LED	2
 Number of ports of the integrated switch 	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes; As of WinCC V12
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	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)	
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	Tes
ATEX Zone 2	Yes
• ATEX Zone 22	Yes
• IECEx Zone 2	Yes
• IECEX Zone 22	Yes
• cULus Class I Zone 1	
	No Yea
cULus Class I Zone 2, Division 2 FM Class I Division 3	Yes
FM Class I Division 2 Marine approval	Yes
Marine approval	Ves: As of product version: 10
Germanischer Lloyd (GL) American Burgau of Shipping (ABS)	Yes; As of product version: 10
American Bureau of Shipping (ABS) Rureau Veritas (RV)	Yes; As of product version: 10
Bureau Veritas (BV) Det Nereka Veritas (DNV)	Yes; As of product version: 10
Det Norske Veritas (DNV) Lloyde Register of Shipping (LRS)	Yes; As of product version: 10
Lloyds Register of Shipping (LRS) Nimon (Gill Victor) (Class NIC)	Yes; As of product version: 10
Nippon Kaiji Kyokai (Class NK) Poleki Painete Statkov (CDS)	Yes; As of product version: 10
Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Ambient temperature during operation	
Operation (vertical installation)	
For vertical installation, min.	0 °C
— For vertical installation, max.	50 °C; (55 °C, see entry ID: 64847814)
Operation (max. tilt angle)	
At maximum tilt angle, min.	0 °C
— At maximum tilt angle, min.	40 °C
Operation (vertical installation, portrait format)	
For vertical installation, min.	0 °C
 For vertical installation, max. 	40 °C
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	O°C

At maximum tilt and a min	2E %
— At maximum tilt angle, min.	35 °C
Ambient temperature during storage/transportation	00.00
• min.	-20 °C
• max.	60 °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	
STEP 7 Basic (TIA Portal)	No
STEP 7 Professional (TIA Portal)	No
WinCC flexible Compact	No
WinCC flexible Standard	No
WinCC flexible Advanced	No
WinCC Basic (TIA Portal)	No
WinCC Comfort (TIA Portal)	Yes; from V11
WinCC Advanced (TIA Portal)	Yes; from V11
WinCC Professional (TIA Portal)	Yes; from V11
Languages	100, 110111 1 1 1
Online languages	
Number of online/runtime languages	32
	32
Project languages • Languages per project	32
Functionality under WinCC (TIA Portal)	32
	V
Libraries	Yes
Applications/options	
Web browser	Yes
Pocket Word	Yes
Pocket Excel	Yes
PDF Viewer	Yes
Media Player	Yes
SIMATIC WinCC Sm@rtServer	Yes
SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	
• time-controlled	Yes
task-controlled	Yes
Help system	
Number of characters per info text	70
Message system	
Number of alarm classes	32
Bit messages	Yes
 Number of bit messages 	4 000
 Analog messages 	Yes
	000
 Number of analog messages 	200
Number of analog messagesS7 alarm number procedure	Yes
S7 alarm number procedure	Yes
 S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, 	Yes Yes
 S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) 	Yes Yes Yes

- Magaga indicator	Voc
Message huffer	Yes
Message buffer Number of entries	1 024
— Number of entries	
Circulating buffer retentive	Yes Yes
— maintenance-free	Yes
	res
Recipe management • Number of recipes	300
	500
Data records per recipeEntries per data record	1 000
Size of internal recipe memory	2 Mbyte
	Yes
Recipe memory expandable Variables	165
Number of variables per device	2 048
Number of variables per device Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
	Yes
Arrays Images	165
Images • Number of configurable images	500
Number of configurable images Permanent window/default	Yes
Global image	Yes
Pop-up images	Yes
Slide-in images	Yes
Image selection by PLC	Yes
Image selection by 1 25 Image number in the PLC	Yes
Image objects	160
Number of objects per image	400
• Text fields	Yes
● I/O fields	Yes
Graphic I/O fields (graphics list)	Yes
Symbolic I/O fields (text list)	Yes
Date/time fields	Yes
Switches	Yes
Buttons	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	
Number of complex objects per screen	20
• Alarm view	Yes
Trend view	Yes
• User view	Yes
Status/control	Yes
Sm@rtClient view	Yes
Recipe view	Yes
f(x) trend view	Yes
System diagnostics view	Yes
Media Player	Yes
HTML browser	Yes
PDF display	Yes
IP camera display	Yes
Bar graphs	Yes
• Sliders	Yes
 Pointer instruments 	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	
 Number of archives per device 	50
 Number of entries per archive 	20 000
Message archive	Yes
 Process value archive 	Yes
 Archiving methods 	
 Sequential archive 	Yes
 Short-term archive 	Yes
 Memory location 	
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
 Data storage format 	
— CSV	Yes
— 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
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
WinAC	Yes
• SINUMERIK	Yes; with SINUMERIK option package
• SIMOTION	Yes
SIMOTIONAllen Bradley (EtherNet/IP)	· · · · ·
	Yes
Allen Bradley (EtherNet/IP)Allen Bradley (DF1)	Yes Yes
Allen Bradley (EtherNet/IP)Allen Bradley (DF1)Mitsubishi (MC TCP/IP)	Yes Yes Yes
 Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) 	Yes Yes Yes Yes
 Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) 	Yes Yes Yes Yes Yes Yes
 Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) 	Yes Yes Yes Yes Yes Yes No
 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 Yes Yes Yes Yes
 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) 	Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes
 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 	Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes
 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 Yes Yes Yes Yes No Yes Yes Yes
 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 Yes Yes Yes Yes Yes No Yes Yes Yes Yes
 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 	Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes
 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 Yes Yes No Yes Yes Yes Yes Yes Yes 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	454 mm
Height of housing front	289 mm
Mounting cutout, width	434 mm
Mounting cutout, height	269 mm
Overall depth	65 mm
Weights	
Weight (without packaging)	4.4 kg
Weight (with packaging)	5.7 kg

last modified:

10/7/2021