SIEMENS

Data sheet

6AG1124-1JC01-4AX0

SIPLUS HMI KP900 Comfort based on 6AV2124-1JC01-0AX0 with conformal coating, 0...+50 $^{\circ}\mathrm{C},$



Figure similar

General information	
Product type designation	KP900 Comfort
Display	
Design of display	TFT
Screen diagonal	9 in
Display width	195 mm
Display height	117 mm
Number of colors	16 777 216
Resolution (pixels)	
 Horizontal image resolution 	800 pixel
Vertical image resolution	480 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 	26
 Number of function keys with LEDs 	26
 Keys with LED 	Yes
System keys	Yes
 Numeric keyboard 	Yes
alphanumeric keyboard	Yes; 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) 	
— F1Fх	26
 Direct keys (keys as S7 input I/O) 	
— F1Fх	26
Direct keys (touch buttons as S7 input I/O)	0
Installation type/mounting	
Mounting position	vertical
Wall mounting/direct mounting	No
Mounting in portrait format possible	No
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°

Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, lower limit (DC) permissible range, upper limit (DC)	28.8 V
	20.0 V
Input current	0.75.4
Current consumption (rated value)	0.75 A
Starting current inrush I²t	0.5 A²·s
Power	
Active power input, typ.	18 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 	No
retentive	Yes
synchronizable	Yes
synchronizable	165
• synchronizable Interfaces	163
	2
Interfaces	
Interfaces Number of industrial Ethernet interfaces	2
Number of industrial Ethernet interfaces Number of RS 485 interfaces	2 1; RS 422 / 485 combined
Number of RS 485 interfaces Number of RS 422 interfaces	2 1; RS 422 / 485 combined 1
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces	2 1; RS 422 / 485 combined 1 0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces	2 1; RS 422 / 485 combined 1 0 2; USB 2.0
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• HTTPS	No
• HTML	Yes
• XML	No
• CSS	Yes
 Active X 	No
 JavaScript 	Yes
 Java VM 	No
Redundancy mode	
Media redundancy	
— MRP	Yes; With WinCC, subsequent version
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 A, for use in industrial areas Limit class B, for use in residential areas	Yes No
·	INO
Degree and class of protection	IDOS
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
For vertical installation, max.	50 °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)	
 For vertical installation, min. 	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	
• min.	-20 °C
• max.	60 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m
 Ambient air temperature-barometric pressure- 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
altitude	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin
Polativo humidity	(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	100 %: PH incl. condensation/frost (no commissioning under
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	., .,
Coolants and lubricants	
Resistant to commercially available coolants	Yes; Incl. diesel and oil droplets in the air
and lubricants	. 55,or dioor and on diophoto in the dii
Use in stationary industrial systems	
— to biologically active substances according to	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of
EN 60721-3-3	fauna); Class 3B3 on request
 to chemically active substances according to 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52

EN 00704 0 0	(acception de man a ON *
EN 60721-3-3	(severity degree 3); *
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 	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	
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	Yes; Conformal coating, Class A
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) WinCO Co. (TIA Portal)	No
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal)	Yes; from V11
WinCC Advanced (TIA Portal) WinCO Professional (TIA Portal)	Yes; from V11
WinCC Professional (TIA Portal)	Yes; from V11
Languages	
Online languages	
Number of online/runtime languages	32
Project languages	22
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
Web browserPocket Word	Yes
Web browserPocket WordPocket Excel	Yes Yes
Web browserPocket WordPocket ExcelPDF Viewer	Yes Yes Yes
Web browserPocket WordPocket Excel	Yes 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	70
Number of alarm classes	32
Bit messages	02
Number of bit messages	4 000
Analog messages	+ 000
— Number of analog messages	200
S7 alarm number procedure	Yes
System messages HMI System system messages (CIMATIC SZ, CIMUMEDIK)	Yes
 System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) 	Yes
Number of characters per message	80
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
Message buffer	
Number of entries	1 024
Circulating buffer	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management	165
Number of recipes	300
Data records per recipe	500
Entries per data record	1 000
Size of internal recipe memory	2 Mbyte
Recipe memory expandable	Yes
Variables	165
Number of variables per device	2 048
	400
Number of variables per screen Limit values	Yes
Limit values Multiploying	Yes
Multiplexing Structures	
	Yes
• Arrays	Yes
Images	500
Number of configurable images	500
Permanent window/default	Yes
Global image	Yes
Image selection by PLC	Yes
 Image number in the PLC 	Yes
Image objects	
Image objects • Number of objects per image	400
Image objects • Number of objects per image • Text fields	400 Yes
Image objects • Number of objects per image • Text fields • I/O fields	400 Yes Yes
Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list)	400 Yes Yes Yes
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	· ·
• 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
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	100, 1 DI, ITTIVIL
Keyboard fonts	
	Voe
— US English	Yes
Transfer (upload/download) • MPI/PROFIBUS DP	Yes
• USB	Yes
Ethernet Weing outernal storage medium	Yes
using external storage medium	No
Process coupling	V
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes
• SINUMERIK	No

• SIMOTION	No; With WinCC, subsequent version
 Allen Bradley (EtherNet/IP) 	Yes
 Allen Bradley (DF1) 	Yes
 Mitsubishi (MC TCP/IP) 	Yes
Mitsubishi (FX)	Yes
 OMRON (FINS TCP) 	No
 OMRON (LINK/Multilink) 	Yes
 Modicon (Modbus TCP/IP) 	Yes
Modicon (Modbus)	Yes
Service tools/configuration aids	
 Backup/Restore manually 	Yes
 Backup/Restore automatically 	Yes
 Simulation 	Yes
Device switchover	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes
SIMATIC HMI SD memory card: Secure Digital memory	Yes
card	
USB memory	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	No
Aluminum	Yes
Stainless steel	No
Dimensions	
Width of the housing front	362 mm
Height of housing front	230 mm
Mounting cutout, width	338 mm
Mounting cutout, height	206 mm
Overall depth	63 mm
Weights	
Weight (without packaging)	2.7 kg
Weight (with packaging)	3.4 kg

last modified:

10/7/2021 🗗