SIEMENS

Data sheet

6AG1124-1JC01-4AX0

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



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) 	
— F1Fx	26
 Direct keys (keys as S7 input I/O) 	
— F1Fx	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, upper limit (DC)	28.8 V
Input current	200 1
Current consumption (rated value)	0.75 A
Starting current inrush I ² t	0.5 A ² ·s
Power	0.077 3
Active power input, typ.	18 W
Processor	10 VV
	V0C
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	
	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
Interfaces	
Number of industrial Ethernet interfaces	2
Number of industrial Ethernet interfaces Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces	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	1; RS 422 / 485 combined 1 0
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces	1; RS 422 / 485 combined 1 0 2; USB 2.0
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY)	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 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 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
Ambient conditions	Y.
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)	010 T :
— 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- altitude 	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
autuue	(Tmax - 10 K) at 755 hPa 550 hPa (+2 000 m +5 000 m)
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	
- Resistant to commercially available coolants	Yes; Incl. diesel and oil droplets in the air
and lubricants	
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	
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	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on
EN 60721-3-6	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	Yes; Conformal coating, Class A
according to IPC-CC-830A	
Operating systems	Na
proprietary	No
pre-installed operating system	Vee
Windows CE	Yes
configuration / header	Ver
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management Configuration software	Yes
STEP 7 Basic (TIA Portal)	No
STEP 7 Basic (TA Portal) STEP 7 Professional (TIA Portal)	No
WinCC flexible Compact	No
Wince flexible compact Wince flexible Standard	No
Wince flexible Standard Wince 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	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
Message system	100
Number of alarm classes	32
Bit messages	52
5	4 000
— Number of bit messagesAnalog messages	4 000
	200
— Number of analog messages	
• S7 alarm number procedure	Yes
System messages HMI	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
Recipe management	
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	
 Number of variables per device 	2 048
 Number of variables per screen 	400
• Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
Images	
Images Number of configurable images 	500
-	500 Yes
Number of configurable imagesPermanent window/default	
Number of configurable images	Yes
 Number of configurable images Permanent window/default Global image Image selection by PLC 	Yes Yes
 Number of configurable images Permanent window/default Global image Image selection by PLC Image number in the PLC 	Yes Yes Yes
 Number of configurable images Permanent window/default Global image Image selection by PLC Image number in the PLC 	Yes Yes Yes
 Number of configurable images Permanent window/default Global image Image selection by PLC Image number in the PLC 	Yes Yes Yes
 Number of configurable images Permanent window/default Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image 	Yes Yes Yes 400
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 Number of configurable images Permanent window/default Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) 	Yes Yes Yes 400 Yes Yes
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 Number of configurable images Permanent window/default Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches 	Yes Yes Yes Yes 400 Yes Yes Yes Yes Yes Yes
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- Madia Diavar	Vee
Media Player	Yes
Bar graphs	Yes
Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Ists Number of text lists per project	500
Number of entries per text list	500
	500
Number of graphics lists per project	500
Number of entries per graphics list Archiving	500
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	1es
-	Yes
— Memory card	
— 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	No
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• \$7-200	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 card	Yes
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
	~1

last modified:

10/7/2021 🖸