## SIEMENS

## Data sheet

## 6AG1124-1GC01-4AX0

SIPLUS HMI KP700 Comfort based on 6AV2124-1GC01-0AX0 with conformal coating,  $0...{+}50\ ^\circ\text{C},$ 



Figure similar

General information	
Product type designation	KP700 Comfort
based on	6AV2124-1GC01-0AX0
Display	
Design of display	TFT
Screen diagonal	7 in
Display width	152.4 mm
Display height	91.4 mm
Number of colors	16 777 216
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	800 pixel
<ul> <li>Vertical image resolution</li> </ul>	480 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	80 000 h
Backlight dimmable	Yes; 0-100 %
Control elements	
Keyboard fonts	
Function keys	
<ul> <li>— Number of function keys</li> </ul>	24
<ul> <li>— Number of function keys with LEDs</li> </ul>	24
Keys with LED	Yes
System keys	Yes
<ul> <li>Numeric keyboard</li> </ul>	Yes
<ul> <li>alphanumeric keyboard</li> </ul>	Yes; similar to mobile phone
Touch operation	
<ul> <li>Design as touch screen</li> </ul>	No; without
Expansions for operator control of the process	
<ul> <li>DP direct LEDs (LEDs as S7 output I/O)</li> </ul>	
— F1Fx	24
<ul> <li>Direct keys (keys as S7 input I/O)</li> </ul>	
— F1Fx	24
<ul> <li>Direct keys (touch buttons as S7 input I/O)</li> </ul>	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	
Current consumption (rated value)	0.5 A
Starting current inrush I <sup>2</sup> t	0.5 A <sup>2</sup> ·s
Power	
Active power input, typ.	12 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
Interfaces	
Number of industrial Ethernet interfaces	2
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 485 interfaces Number of RS 422 interfaces	1; RS 422 / 485 combined 1
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces	1; RS 422 / 485 combined 1 0
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 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 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
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)         Number of parallel interfaces	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0
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)         Number of parallel interfaces         Number of other interfaces	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 0
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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)         Number of parallel interfaces         Number of other interfaces         Number of SD card slots	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2
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)         Number of parallel interfaces         Number of SD card slots         With software interfaces	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2
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)         Number of parallel interfaces         Number of other interfaces         Number of SD card slots         With software interfaces         Industrial Ethernet	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
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• HTML	Yes
• XML	No
• CSS	Yes
Active X	No
<ul> <li>JavaScript</li> </ul>	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	
<ul> <li>Diagnostic information readable</li> </ul>	Yes; S7 controller
EMC	
Emission of radio interference acc. to EN 55 011	
<ul> <li>Limit class A, for use in industrial areas</li> </ul>	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)	
<ul> <li>Enclosure Type 4 at the front</li> </ul>	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	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	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 (Tmax -20 K)
Deletive humidity	at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	100 % DH incl. condensation fract (see complexity in the set described
<ul> <li>With condensation, tested in accordance with IEC 60068- 2-38, max.</li> </ul>	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
Coolants and lubricants	
<ul> <li>Resistant to commercially available coolants and lubricants</li> </ul>	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
— to biologically active substances according to EN	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna);
60721-3-3 — to chemically active substances according to EN	Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity
60721-3-3	degree 3); *
<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); *
<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
Military testing according to MIL-I-46058C, Amendment 7	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
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
<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No
WinCC flexible Compact	No
WinCC flexible Standard	No
WinCC flexible Advanced	No
WinCC Basic (TIA Portal)	No
<ul> <li>WinCC Comfort (TIA Portal)</li> </ul>	Yes; from V11
<ul> <li>WinCC Advanced (TIA Portal)</li> </ul>	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

Help system	
Number of characters per info text	70
Message system	
Number of alarm classes	32
Bit messages	
— Number of bit messages	4 000
Analog messages	
<ul> <li>Number of analog messages</li> </ul>	200
S7 alarm number procedure	Yes
System messages HMI	Yes
System event, more (SIMATIC S7, SINUMERIK,	Yes
SIMOTION, )	
<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	
- Number of entries	1 024
— Circulating buffer	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management	000
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 Variables	Yes
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
• Arrays	Yes
Images	100
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	
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
Bar graphs	Yes
• Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Lists	500
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	Van
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	
- CSV	Yes
— TXT	Yes
— RDB	Yes
Security	50
Number of user groups	50
Number of user rights	32
Number of users	50
Password export/import	Yes
SIMATIC Logon Logging through printer	Yes
Alarms	Vee
	Yes
Report (shift log)	Yes
<ul><li>Hardcopy</li><li>Electronic print to file</li></ul>	Yes 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
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes
• SINUMERIK	No
SINOTION	No; With WinCC, subsequent version
Allen Bradley (EtherNet/IP)	Yes
Allen Bradley (DF1)	Yes
Mitsubishi (MC TCP/IP)	Yes
Misubishi (MCTCF/F)     Misubishi (FX)	Yes
OMRON (FINS TCP)	No
OMRON (LINK/Multilink)	Yes
	100

Modicon (Modbus TCP/IP)	Yes
Modicon (Modbus)	Yes
Service tools/configuration aids	
<ul> <li>Backup/Restore manually</li> </ul>	Yes
<ul> <li>Backup/Restore automatically</li> </ul>	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	308 mm
Height of housing front	204 mm
Mounting cutout, width	281 mm
Mounting cutout, height	177 mm
Overall depth	63 mm
Weights	
Weight (without packaging)	2.2 kg
Weight (with packaging)	2.8 kg
Classifications	

	Version	Classification
eClass	14	27-33-02-01
eClass	12	27-33-02-01
eClass	9.1	27-33-02-01
eClass	9	27-33-02-01
eClass	8	27-24-23-02
eClass	7.1	27-24-23-02
eClass	6	27-24-23-02
ETIM	9	EC001412
ETIM	8	EC001412
ETIM	7	EC001412
IDEA	4	6607
UNSPSC	15	43-21-15-06

Approval	s / Certific	ates
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General Product Approval

Miscellaneous	











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 For use in hazardous locations
 Marine / Shipping

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