## **SIEMENS**

## **Data sheet**

6AG1124-1DC01-4AX0



SIPLUS HMI KP400 Comfort based on 6AV2124-1DC01-0AX0 with conformal coating, 0...+50  $^{\circ}\text{C},$ 

Figure similar

General information	
Product type designation	KP400 Comfort
Display	
Design of display	TFT
Screen diagonal	4.3 in
Display width	95 mm
Display height	53.8 mm
Number of colors	16 777 216
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	480 pixel
Vertical image resolution	272 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	80 000 h
<ul> <li>Backlight dimmable</li> </ul>	Yes; 0-100 %
Control elements	
Keyboard fonts	
<ul> <li>Function keys</li> </ul>	
<ul> <li>Number of function keys</li> </ul>	8
<ul> <li>Number of function keys with LEDs</li> </ul>	8
<ul> <li>Keys with LED</li> </ul>	Yes
System keys	Yes
<ul> <li>Numeric keyboard</li> </ul>	Yes
alphanumeric keyboard	Yes; similar to mobile phone
Touch operation	
Design as touch screen	No; without
Expansions for operator control of the process	
<ul> <li>DP direct LEDs (LEDs as S7 output I/O)</li> </ul>	
— F1Fх	8
<ul> <li>Direct keys (keys as S7 input I/O)</li> </ul>	
— F1Fх	8
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
	24 V
Rated value (DC)	19.2 V
permissible range, lower limit (DC) permissible range, upper limit (DC)	28.8 V
	20.0 V
Input current	
Current consumption (rated value)	0.13 A
Starting current inrush I²t	0.5 A <sup>2</sup> ·s
Power	
Active power input, typ.	3.1 W
Processor	
Processor type	ARM
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	4 Mbyte
Type of output	.,
Info LED	Yes
Power LED	No
Error LED	No
Acoustics	TV .
Buzzer	Yes
Speaker	No
	110
Time of day	
Clock	Ver
Hardware clock (real-time)	Yes
Software clock	No
• retentive	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes
Interfaces	
Interfaces	
Number of industrial Ethernet interfaces	1
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
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• HTTPS	No
• HTML	Yes
• XML	No
• CSS	Yes
<ul> <li>Active X</li> </ul>	No
<ul> <li>JavaScript</li> </ul>	Yes
Java VM	No
Redundancy mode	
Media redundancy	
— MRP	No
Further protocols	
• CAN	No
MODBUS	Yes
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)	
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; = Tmin
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
	(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
<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	ochachoulon conditions)
Coolants and lubricants	
Resistant to commercially available coolants	Yes; Incl. diesel and oil droplets in the air
and lubricants	100, mon. diodoi dira on diopioto in trio 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	(accomits de area 2) *
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	Very Class CDO model and formed arrange (and 11 for 12 of 12
<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
<ul> <li>Military testing according to MIL-I-46058C, Amendment 7</li> </ul>	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	
<ul> <li>STEP 7 Basic (TIA Portal)</li> </ul>	No
<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No
<ul> <li>WinCC flexible Compact</li> </ul>	No
<ul> <li>WinCC flexible Standard</li> </ul>	No
<ul> <li>WinCC flexible Advanced</li> </ul>	No
<ul> <li>WinCC Basic (TIA Portal)</li> </ul>	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	
<ul> <li>Number of online/runtime languages</li> </ul>	32
Project languages	
<ul> <li>Languages per project</li> </ul>	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
<ul> <li>Pocket Word</li> </ul>	Yes
Pocket Excel	Yes
PDF Viewer	Yes
Media Player	Yes
<ul> <li>SIMATIC WinCC Sm@rtServer</li> </ul>	Yes
SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Languages per project  Functionality under WinCC (TIA Portal)  Libraries  Applications/options     Web browser     Pocket Word     Pocket Excel     PDF Viewer     Media Player     SIMATIC WinCC Sm@rtServer     SIMATIC WinCC Audit	Yes

Task planner	Voc
<ul><li>time-controlled</li><li>task-controlled</li></ul>	Yes Yes
	Yes
<ul><li>Help system</li><li>Number of characters per info text</li></ul>	70
Message system	70
Number of alarm classes	32
Bit messages	02
Number of bit messages	2 000
Analog messages	
Number of analog messages	50
S7 alarm number procedure	Yes
System messages HMI	Yes
• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)	Yes
<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	
<ul><li>— Number of entries</li></ul>	256
<ul> <li>Circulating buffer</li> </ul>	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management	
Number of recipes	100
Data records per recipe	200
Entries per data record	200
Size of internal recipe memory	512 kbyte
Recipe memory expandable	Yes
Variables	4.004
<ul><li>Number of variables per device</li><li>Number of variables per screen</li></ul>	1 024 50
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	50
Text fields	Yes
• I/O fields	Yes
<ul> <li>Graphic I/O fields (graphics list)</li> </ul>	Yes
<ul> <li>Symbolic I/O fields (text list)</li> </ul>	Yes
<ul> <li>Date/time fields</li> </ul>	Yes
<ul> <li>Switches</li> </ul>	Yes
Buttons	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	
<ul> <li>Number of complex objects per screen</li> </ul>	5
<ul><li>Number of complex objects per screen</li><li>Alarm view</li></ul>	Yes

Status/control	Yes
<ul><li>Status/control</li><li>Sm@rtClient view</li></ul>	Yes
Recipe view  f(x) to a relations	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	000
Number of text lists per project	300
Number of entries per text list	30
Number of graphics lists per project	100
Number of entries per graphics list	30
Archiving	
Number of archives per device	10
Number of entries per archive	10 000
<ul> <li>Message archive</li> </ul>	Yes
<ul> <li>Process value archive</li> </ul>	Yes
<ul> <li>Archiving methods</li> </ul>	
<ul> <li>Sequential archive</li> </ul>	Yes
<ul> <li>Short-term archive</li> </ul>	Yes
Memory location	
<ul> <li>Memory card</li> </ul>	Yes
— USB memory	Yes
— Ethernet	Yes
<ul> <li>Data storage format</li> </ul>	
— CSV	Yes
— TXT	Yes
— RDB	Yes
Security	
<ul> <li>Number of user groups</li> </ul>	50
- ·	
Number of user rights	32
	32 50
<ul> <li>Number of user rights</li> </ul>	
<ul><li>Number of user rights</li><li>Number of users</li></ul>	50
<ul><li>Number of user rights</li><li>Number of users</li><li>Password export/import</li></ul>	50 Yes
<ul><li>Number of user rights</li><li>Number of users</li><li>Password export/import</li><li>SIMATIC Logon</li></ul>	50 Yes
<ul> <li>Number of user rights</li> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> </ul>	50 Yes Yes
<ul> <li>Number of user rights</li> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> <li>Alarms</li> </ul>	Yes Yes
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<ul> <li>Number of user rights</li> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> <li>Alarms</li> <li>Report (shift log)</li> <li>Hardcopy</li> <li>Electronic print to file</li> <li>Character sets</li> <li>Keyboard fonts  — US English</li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes; PDF, HTML  Yes
<ul> <li>Number of user rights</li> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> <li>Alarms</li> <li>Report (shift log)</li> <li>Hardcopy</li> <li>Electronic print to file</li> <li>Character sets</li> <li>Keyboard fonts  — US English</li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>USB</li> <li>Ethernet</li> </ul>	Yes
Number of users Number of users Password export/import SIMATIC Logon  Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file  Character sets Keyboard fonts — US English  Transfer (upload/download) MPI/PROFIBUS DP USB Ethernet using external storage medium	Yes Yes Yes Yes Yes Yes Yes Yes; PDF, HTML  Yes Yes Yes Yes
<ul> <li>Number of user rights</li> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> <li>Alarms</li> <li>Report (shift log)</li> <li>Hardcopy</li> <li>Electronic print to file</li> <li>Character sets</li> <li>Keyboard fonts  — US English</li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>USB</li> <li>Ethernet</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes; PDF, HTML  Yes Yes Yes Yes
<ul> <li>Number of users</li> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> <li>Alarms</li> <li>Report (shift log)</li> <li>Hardcopy</li> <li>Electronic print to file</li> <li>Character sets</li> <li>Keyboard fonts  — US English</li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>USB</li> <li>Ethernet</li> <li>using external storage medium</li> <li>Process coupling</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes; PDF, HTML  Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>Number of users</li> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> <li>Alarms</li> <li>Report (shift log)</li> <li>Hardcopy</li> <li>Electronic print to file</li> <li>Character sets</li> <li>Keyboard fonts  — US English</li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>USB</li> <li>Ethernet</li> <li>using external storage medium</li> <li>Process coupling</li> <li>\$7-1200</li> <li>\$7-1500</li> </ul>	Yes Yes Yes Yes Yes Yes Yes; PDF, HTML  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> <li>Alarms</li> <li>Report (shift log)</li> <li>Hardcopy</li> <li>Electronic print to file</li> <li>Character sets</li> <li>Keyboard fonts  — US English</li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>USB</li> <li>Ethernet</li> <li>using external storage medium</li> <li>Process coupling</li> <li>\$7-1200</li> <li>\$7-1500</li> <li>\$7-200</li> </ul>	50 Yes Yes Yes Yes Yes Yes Yes Yes; PDF, HTML  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> <li>Alarms</li> <li>Report (shift log)</li> <li>Hardcopy</li> <li>Electronic print to file</li> <li>Character sets</li> <li>Keyboard fonts  — US English</li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>USB</li> <li>Ethernet</li> <li>using external storage medium</li> <li>Process coupling</li> <li>\$7-1200</li> <li>\$7-200</li> <li>\$7-300/400</li> </ul>	7es Yes Yes Yes Yes Yes Yes Yes; PDF, HTML  Yes  Yes Yes Yes Yes Yes Yes Yes Yes Y
<ul> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> <li>Alarms</li> <li>Report (shift log)</li> <li>Hardcopy</li> <li>Electronic print to file</li> <li>Character sets</li> <li>Keyboard fonts  — US English</li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>USB</li> <li>Ethernet</li> <li>using external storage medium</li> <li>Process coupling</li> <li>\$7-1200</li> <li>\$7-1500</li> <li>\$7-200</li> <li>\$7-300/400</li> <li>LOGO!</li> </ul>	7es Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
<ul> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> <li>Alarms</li> <li>Report (shift log)</li> <li>Hardcopy</li> <li>Electronic print to file</li> <li>Character sets</li> <li>Keyboard fonts  — US English</li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>USB</li> <li>Ethernet</li> <li>using external storage medium</li> <li>Process coupling</li> <li>\$7-1200</li> <li>\$7-1500</li> <li>\$7-200</li> <li>\$7-300/400</li> <li>LOGO!</li> <li>WinAC</li> </ul>	50 Yes
<ul> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> <li>Alarms</li> <li>Report (shift log)</li> <li>Hardcopy</li> <li>Electronic print to file</li> <li>Character sets</li> <li>Keyboard fonts  — US English</li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>USB</li> <li>Ethernet</li> <li>using external storage medium</li> <li>Process coupling</li> <li>\$7-1200</li> <li>\$7-1500</li> <li>\$7-200</li> <li>\$7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> </ul>	Yes Yes Yes Yes Yes Yes Yes; PDF, HTML  Yes  Yes Yes Yes Yes Yes Yes Yes Yes Y
<ul> <li>Number of users</li> <li>Password export/import</li> <li>SIMATIC Logon</li> <li>Logging through printer</li> <li>Alarms</li> <li>Report (shift log)</li> <li>Hardcopy</li> <li>Electronic print to file</li> <li>Character sets</li> <li>Keyboard fonts  — US English</li> <li>Transfer (upload/download)</li> <li>MPI/PROFIBUS DP</li> <li>USB</li> <li>Ethernet</li> <li>using external storage medium</li> <li>Process coupling</li> <li>\$7-1200</li> <li>\$7-1500</li> <li>\$7-200</li> <li>\$7-300/400</li> <li>LOGO!</li> <li>WinAC</li> </ul>	50 Yes

<ul><li>Allen Bradley (DF1)</li></ul>	Yes
<ul> <li>Mitsubishi (MC TCP/IP)</li> </ul>	Yes
<ul><li>Mitsubishi (FX)</li></ul>	Yes
<ul><li>OMRON (FINS TCP)</li></ul>	No
<ul> <li>OMRON (LINK/Multilink)</li> </ul>	Yes
<ul> <li>Modicon (Modbus TCP/IP)</li> </ul>	Yes
<ul><li>Modicon (Modbus)</li></ul>	Yes
<ul> <li>OPC UA Client</li> </ul>	Yes
OPC UA Server	Yes
Service tools/configuration aids	
<ul> <li>Backup/Restore manually</li> </ul>	Yes
<ul> <li>Backup/Restore automatically</li> </ul>	Yes
<ul> <li>Simulation</li> </ul>	Yes
<ul> <li>Device switchover</li> </ul>	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)	
<ul><li>Plastic</li></ul>	Yes
<ul> <li>Aluminum</li> </ul>	No
Stainless steel	No
Dimensions	
Width of the housing front	152 mm
Height of housing front	188 mm
Mounting cutout, width	135 mm
Mounting cutout, height	171 mm
Overall depth	49 mm
Weights	
Weight (without packaging)	0.8 kg
Weight (with packaging)	0.9 kg

last modified:

10/7/2021 🗗