Data sheet



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)	
 Horizontal image resolution 	480 pixel
Vertical image resolution	272 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 	8
 Number of function keys with LEDs 	8
 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	8
 Direct keys (keys as S7 input I/O) 	
— F1Fx	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 ² ·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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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) Number of parallel interfaces	1; RS 422 / 485 combined 1 0 1; USB 2.0 1; 5-pole
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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	No
Further protocols	
• CAN	No
MODBUS	Yes
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	
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
Relative humidity	(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
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 and lubricants 	Yes; Incl. diesel and oil droplets in the air
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 EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *

Use on ships/at sea	V 01 000 11 15 1 () 01 000
 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) 	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
•	

Tack planner	
Task planner • time-controlled	Yes
time-controlled task-controlled	Yes
• task-controlled Message system	163
Number of alarm classes	32
Bit messages	52
Number of bit messages	2 000
Analog messages	2 000
Number of analog messages	50
S7 alarm number procedure	Yes
System messages HMI	Yes
 System event, more (SIMATIC S7, SINUMERIK, 	Yes
SIMOTION,)	
 Number of characters per message 	80
 Number of process values per message 	8
 Acknowledgment groups 	Yes
Message indicator	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	4.024
Number of variables per device Number of variables per geroep	1 024
Number of variables per screen Limit values	50 Voc
Limit values Multiplexing	Yes
Multiplexing Structures	Yes Yes
Structures Arrays	Yes
Arrays Images	160
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
 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 	5
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	200
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	40
Number of archives per device	10
Number of entries per archive	10 000
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 Yes
• USB	Yes
USBEthernet	Yes Yes
USBEthernetusing external storage medium	Yes Yes
 USB Ethernet using external storage medium Process coupling	Yes Yes No
 USB Ethernet using external storage medium Process coupling S7-1200 	Yes Yes No Yes
 USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 	Yes Yes No Yes Yes
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 	Yes Yes No Yes Yes Yes Yes
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 	Yes Yes No Yes Yes Yes Yes Yes Yes
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! 	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC 	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC SINUMERIK 	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) 	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC SINUMERIK SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) 	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP)	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX)	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP)	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC SINUMERIK SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) 	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP)	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

OPC UA Client	Yes
OPC UA Server	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	Yes
Aluminum	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 🖸