SIEMENS

Data sheet

SIPLUS HMI KTP400 Comfort based on 6AV2124-2DC01-0AX0 with conformal coating, 0...+50 $^{\circ}\text{C},$



Figure similar

General information	
Product type designation	KTP400 Comfort
Display	
Design of display Screen diagonal Display width Display height Number of colors Resolution (pixels) • Horizontal image resolution	TFT 4.3 in 95 mm 53.8 mm 16 777 216
Vertical image resolution Backlighting	272 pixel
MTBF backlighting (at 25 °C) Backlight dimmable	80 000 h Yes; 0-100 %
Control elements	
 Keyboard fonts Function keys — Number of function keys — Number of function keys with LEDs Keys with LED System keys Numeric keyboard alphanumeric keyboard Touch operation Design as touch screen Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) — F1Fx Direct keys (keys as S7 input I/O) — F1Fx Direct keys (touch buttons as S7 input I/O) 	4 4 Yes No Yes; Onscreen keyboard Yes; Onscreen keyboard Yes; Analog-resistive 4 4 32
Installation type/mounting	
Mounting position Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation	vertical No Yes Yes 35°
Supply voltage	
Type of supply voltage	DC

Pated value (DC)	24 V
Rated value (DC) permissible range, lower limit (DC)	24 V 19.2 V
permissible range, lower limit (DC) permissible range, upper limit (DC)	19.2 V 28.8 V
Input current	
Current consumption (rated value)	0.13 A
Starting current inrush I²t	0.13 A
Power	
Active power input, typ.	3.1 W
Processor	
Processor type	ARM
Memory	7.4.44
Flash	Yes
RAM	Yes
Memory available for user data	4 Mbyte
Type of output	
Info LED	No
Power LED	No
Error LED	No
Acoustics	
Buzzer	Yes
Speaker	No
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	No Var
• retentive	Yes
synchronizable Interference	Yes
Interfaces	4
Number of industrial Ethernet interfaces Number of RS 485 interfaces	1 1; RS 422 / 485 combined
Number of RS 422 interfaces	1, RS 422 / 485 combined
Number of RS 232 interfaces	0
Number of INS 252 interfaces	1; USB 2.0
• USB Mini B	1; 5-pole
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	2
With software interfaces	No
Industrial Ethernet status LED	2
Industrial Ethernet status LEDNumber of ports of the integrated switch	2
	'
Protocols	Voc
PROFINET Supports protocol for PROFINET IO	Yes Yes
IRT	No
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
LLDP WED characteristics.	Yes
WEB characteristics ◆ HTTP	Yes
• HTTPS	No
• HTML	Yes
• XML	No
• CSS	Yes
Active X	No

JavaScript	Yes
• Java VM	No
Redundancy mode	INO
Media redundancy	
— MRP	No
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	
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)	0.00 T
— 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
	(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	400 % 500
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	condensation conditions,
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 EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of 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 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 	Yes; Class 6S3 incl. sand, dust; *

EN 60721-3-6	
Usage in industrial process technology	Variable of the state of the st
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas
measuring and control systems acc. to ANSI/ISA-	concentrations up to the limits of EN 60721-3-3 class 3C4 permissible);
71.04	level LC3 (salt spray) and level LB3 (oil)
Remark Note regarding classification of environmental	* The cumplied plug covers must remain in place over the unused
 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	Yes; Conformal coating, Class A
Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	160, Comomia Couling, Clase 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 Configuration software	Yes
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	V.
Web browser	Yes
Pocket Word Pocket Even	Yes
Pocket Excel PDE Viewer	Yes
PDF Viewer Media Player	Yes Yes
Media PlayerSIMATIC WinCC Sm@rtServer	Yes
SIMATIC WINCC SINGITSEIVER SIMATIC WINCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	
• time-controlled	Yes
• task-controlled	Yes
Message system	
Number of alarm classes	32
Bit messages	
 Number of bit messages 	2 000
 Analog messages 	
 Number of analog messages 	50

System event, more (SINATTC ST, SINUMERIK, System event, more subject to the system event even even	S7 alarm number procedure	Yes
System event, more (SIMATIC ST, SINUMERIK, SIMOTION,		
	 System event, more (SIMATIC S7, SINUMERIK, 	
Number of process values per message Acknowledgment groups Nessage indicator Nessage indicator Necipe management Number of recipes Number of recipes Number of recipes Number of variables per dela record Number of variables per dela record Number of variables per device Number of variables per device Number of variables per screen Number of variables Number of variables per screen Number of variables Numbe		80
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Number of recipes		
Number of recipes ○ Data records per recipe ○ Eurines per data record ○ Size of Internal recipe memory ○ Recipe memory expandable Variables Number of variables per device ○ Number of variables per screen ○ Number of variables per screen ○ Multiplexing ○ Yes ○ Multiplexing ○ Siructures ○ Arrays ○ Siructures ○ Arrays ○ Number of configurable images ○ Remanent window/default ○ Global image ○ Permanent window/default ○ Global image ○ Number of objects per image ○ Number of objects per screen ○ Number of omplex objects per screen ○ Number of omplex objects per screen ○ Number of omplex objects per screen ○ Number of entries per project ○ Number of entries per archive ○ Number of entries per gearchive ○ Number of entries per archive ○ Number of		
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Number of variables per device 1 024	 Size of internal recipe memory 	512 kbyte
Number of variables per device 1 024	Recipe memory expandable	Yes
Number of variables per screen 50	Variables	
Limit values Yes		
Multiplexing	 Number of variables per screen 	50
Marays		
Number of configurable images 500		
		Yes
		500
Global image Image selection by PLC Image objects Number of objects per image Graphic l/O fields Switches Buttons Geometric objects Formities objects Switches Geometric objects Geometric objects Formities objects Geometric objects Formities obj		
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 Number of entries per archive Message archive Yes 	•	10
		10 000
Process value archive Yes	 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
• 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
• 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	Yes
Plastic	Yes No No

Dimensions		
Width of the housing front	140 mm	
Height of housing front	116 mm	
Mounting cutout, width	123 mm	
Mounting cutout, height	99 mm	
Overall depth	49 mm	
Weights		
Weight (without packaging)	0.6 kg	
Weight (with packaging)	0.7 kg	

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