SIEMENS

Data sheet



spare part SIPLUS HMI KTP400 Basic mono PN based on 6AV6647-0AA11-3AX0 with conformal coating, -10...+60 $^{\circ}$ C, display, Ethernet interface

Product type designation KTP400 Basic mono PN Display Design of display STN Screen diagonal 3.8 in Display width 76.8 mm Display height 57.6 mm	
Design of displaySTNScreen diagonal3.8 inDisplay width76.8 mm	
Screen diagonal 3.8 in Display width 76.8 mm	
Display width 76.8 mm	
Display height 57.6 mm	
Resolution (pixels)	
Horizontal image resolution 320 pixel	
• Vertical image resolution 240 pixel	
Backlighting	
MTBF backlighting (at 25 °C) 30 000 h	
Control elements	
Keyboard fonts	
Function keys	
— Number of function keys 4	
— Number of function keys with LEDs0	
• Keys with LED No	
System keys No	
Numeric keyboard Yes; Onscreen keyboard	
alphanumeric keyboard Yes; Onscreen keyboard	
Touch operation	
Design as touch screen Yes	
Installation type/mounting	
Mounting position vertical	
Rack mounting No	
Wall mounting/direct mounting No	
maximum permissible angle of inclination without external ventilation 35°	
Supply voltage	
Type of supply voltage DC	
permissible range, lower limit (DC) 19.2 V	
permissible range, upper limit (DC) 28.8 V	
Input current	
Starting current inrush I²t 0.5 A²·s	
Processor	
Processor type RISC 32 bit	
Memory	
Flash Yes	

RAM	Yes
Memory available for user data	512 kbyte
Type of output	o 12 noyto
Acoustics	Cound signal
Time of day	Sound signal
Clock	Voc
Software clock	Yes
Interfaces	1
Number of industrial Ethernet interfaces	1
Number of RS 485 interfaces	0
Number of RS 422 interfaces Number of RS 232 interfaces	0
Number of USB interfaces	0
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
With software interfaces	No
Industrial Ethernet	110
Industrial Ethernet status LED	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	No
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Further protocols	
• MODBUS	Yes; Modicon (MODBUS TCP/IP)
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
Operation (vertical installation)	
— For vertical installation, min.	-10 °C
 For vertical installation, max. 	60 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	-10 °C
— At maximum tilt angle, max.	40 °C
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	(1111ax -20 K) at 050 HF a 340 HF a (+5 500 HF +5 000 HI)
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 60721-3-3 — to mechanically active substances according to	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, *
EN 60721-3-3	1 co, Ciass oot IIIoi. saliu, uust,
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 Very Class 6C2 (PH < 75 %) included approvious to EN 60069 2.52
 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	
Remark	* The soundied of the sound of the sound is in old to the sound
 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
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
Languages	
Online languages • Number of online/runtime languages	5
Project languages	3
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	none
Web browser	No
SIMATIC WinCC Sm@rtServer	No
Task planner	Yes
Help system	Yes
Number of characters per info text	320
Message system	20
Number of alarm classes Dit magazages	32 Von
Bit messages— Number of bit messages	Yes 200
Analog messages	Yes
Number of analog messages	15
System messages HMI	Yes
• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)	No
Number of characters per message	80
 Number of process values per message 	8
Message indicator	Yes
Message buffer	Ring buffer (n x 256 entries), non-retentive
— Number of entries	256
— Circulating buffer	Yes
Recipe management	

Number of and	
Number of recipes	5
Data records per recipe	20
Entries per data record	20
Size of internal recipe memory	40 kbyte
Recipe memory expandable	No
Variables	
 Number of variables per device 	128
 Number of variables per screen 	30
Limit values	Yes
 Multiplexing 	Yes
Structures	No
Images	
 Number of configurable images 	50
 Permanent window/default 	Yes; No permanent window can be configured
 Image selection by PLC 	Yes
Image number in the PLC	Yes
Complex image objects	
Status/control	No
Lists	
Number of text lists per project	150
Number of graphics lists per project	100
Security	
 Number of user groups 	50
 Number of user rights 	32
Password export/import	No .
Character sets	
Keyboard fonts	US American (English)
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	No
• USB	No
• Ethernet	Yes
using external storage medium	No
Process coupling	
• S7-200	Yes; Via CP
• S7-300/400	Yes
SINUMERIK	No
• SIMOTION	No
 Allen Bradley (DF1) 	No
Mitsubishi (FX)	No
OMRON (LINK/Multilink)	No
Modicon (Modbus)	No
Service tools/configuration aids	
 Backup/Restore manually 	Yes
Simulation	Yes
Device switchover	Yes
Peripherals/Options	
Peripherals	none
Printer	No
SIMATIC HMI MM memory card: Multi Media Card	No
SIMATIC HMI SD memory card: Secure Digital memory card	No
USB memory	No
Mechanics/material	
Enclosure material (front)	
Plastic	Yes
• Aluminum	No
Dimensions	
Width of the housing front	140 mm
Height of housing front	116 mm
Transpire of frodomy from	1 IV Hild

Mounting cutout, width	123 mm	
Mounting cutout, height	99 mm	
Overall depth	40 mm	
Weights		
Weight (without packaging)	0.32 kg	
Weight (with packaging)	0.53 kg	

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