SIEMENS

Data sheet

6AG1647-0AE11-4AX0

spare part SIPLUS HMI KTP1000 Basic Color DP based on 6AV6647-0AE11-3AX0 with conformal coating, 0...+50 $^\circ\text{C},$



General information	
Product type designation KT	TP1000 Basic color DP
Display	
Design of display TF	FT
Screen diagonal 10	0.4 in
Display width 21	11.2 mm
Display height 15	58.4 mm
Number of colors 25	56
Resolution (pixels)	
Horizontal image resolution 64	40 pixel
Vertical image resolution 48	80 pixel
Backlighting	
MTBF backlighting (at 25 °C) 50	0 000 h
Control elements	
Keyboard fonts	
Function keys	
- Number of function keys 8	
- Number of function keys with LEDs 0	
Keys with LED No	0
System keys No	0
Numeric keyboard Ye	es; Onscreen keyboard
alphanumeric keyboard Ye	es; Onscreen keyboard
Touch operation	
Design as touch screen Ye	es
nstallation type/mounting	
Mounting position ve	ertical
Rack mounting No.	0
Wall mounting/direct mounting No.	0
maximum permissible angle of inclination without external ventilation 35	5°
Supply voltage	
Type of supply voltage DC	С
permissible range, lower limit (DC) 19	9.2 V
permissible range, upper limit (DC) 28	8.8 V
nput current	
Starting current inrush I ² t 0.2	2 A ² ·s
Processor	
Processor type RI:	ISC 32 bit
/lemory	

Flash	Yes
RAM	Yes
Memory available for user data	1 024 kbyte
Type of output	1 024 KByle
Acoustics	Sound signal
	Sound signal
Time of day	
Clock	N .
Software clock	Yes
Interfaces	
Number of industrial Ethernet interfaces	0
Number of RS 485 interfaces	_ 1
Number of RS 422 interfaces	1
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	
Industrial Ethernet status LED	0
Protocols	
PROFINET	No
Supports protocol for PROFINET IO	No
PROFIBUS	Yes
EtherNet/IP	No
MPI	Yes
Protocols (Ethernet)	
• TCP/IP	No
• DHCP	No
• SNMP	No
• DCP	No
• LLDP	No
Further protocols	
MODBUS	Yes
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.	0°0
 For vertical installation, max. 	50 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	0°0
— At maximum tilt angle, max.	40 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	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) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under 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 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 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	
— 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; *
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
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	
 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	
 Number of alarm classes 	32
 Bit messages 	Yes
— Number of bit messages	200
Analog messages	Yes
— Number of analog messages	15
System messages HMI	Yes
System event, more (SIMATIC S7, SINUMERIK,	No
SIMOTION,)	
 Number of characters per message 	80
 Number of process values per message 	8
Message indicator	Yes
Message buffer	Ring buffer (n x 256 entries), retentive, maintenance-free
- Number of entries	256
— Circulating buffer	Yes
Recipe management	
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	500
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	Yes
• USB	No
• Ethernet	No
using external storage medium	No
Process coupling	Vac
• S7-200	Yes
• S7-300/400	Yes
	No
SINUMERIK SIMOTION	No
	No
Allen Bradley (DF1) Mitauhishi (EX)	Yes
Mitsubishi (FX)	Yes
OMRON (LINK/Multilink) Modicon (Modhuc)	Yes
Modicon (Modbus) Service tools/configuration aids	Yes
Backup/Restore manually	Yes
Simulation	Yes
Operation Device switchover	Yes
Peripherals/Options	
Peripherals	none
Penpherais	No
SIMATIC HMI MM memory card: Multi Media Card	No
SIMATIC HMI SD memory card: Secure Digital memory	No
_ card	
USB memory	No
Mechanics/material	
Enclosure material (front)	
Plastic	Yes
Aluminum	No
Dimensions	
Width of the housing front	335 mm
Height of housing front	275 mm
Mounting cutout, width	310 mm
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Mounting cutout, height	248 mm
Overall depth	60 mm
Weights	
Weight (without packaging)	2.65 kg
Weight (with packaging)	3.52 kg

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