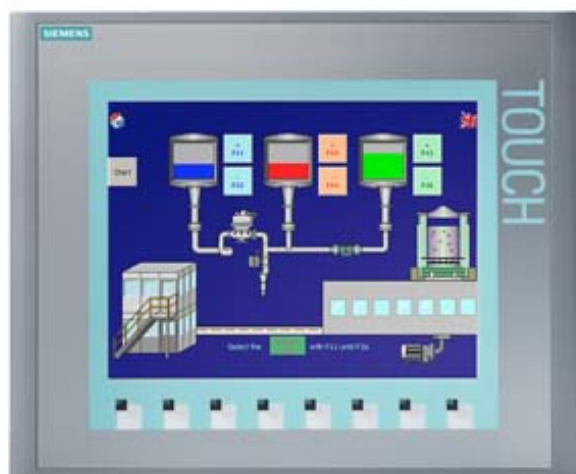


SIPLUS HMI KTP1000 BASIC COLOR DP FOR MEDIAL STRESS
WITH CONFORMAL COATING BASED ON 6AV6647-0AE11-3AX0



General information

Product type designation	KTP1000 Basic color DP
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Display

Design of display	TFT
Screen diagonal	10.4 in
Display width	211.2 mm
Display height	158.4 mm
Number of colors	256

Resolution (pixels)

• Horizontal image resolution	640 Pixel
• Vertical image resolution	480 Pixel

Backlighting

• MTBF backlighting (at 25 °C)	50 000 h
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Control elements

Keyboard fonts

• Function keys	
— Number of function keys	8
• Keys with LED	No

• System keys	No
• Numeric/alphabetical input	Yes (on-screen keyboard) / Yes (on-screen keyboard)
— Numeric keyboard	Yes; Onscreen keyboard
— alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
• Design as touch screen	Yes
Installation type/mounting	
Mounting position	vertical
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 I ² t	0.2 A ² ·s
Processor	
Processor type	RISC 32-bit
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	1 024 kbyte
Type of output	
Acoustics	Sound signal
Time of day	
Clock	
• Software clock	Yes
Interfaces	
Number of industrial Ethernet interfaces	0
Number of RS 485 interfaces	1
Number of USB interfaces	0
Number of 20 mA interfaces (TTY)	0
Number of RS 232 interfaces	0
Number of RS 422 interfaces	1
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
MPI	Yes
Protocols (Ethernet)	
• TCP/IP	No
• DHCP	No
• SNMP	No
• DCP	No
• LLDP	No
Further protocols	
• MODBUS	Yes
• EtherNet/IP	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
Marine approval	
• Germanischer Lloyd (GL)	No
• American Bureau of Shipping (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (Class NK)	No
• Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Ambient temperature during operation	
• Operation (vertical installation)	0 to +50 °C
— For vertical installation, min.	0 °C
— For vertical installation, max.	50 °C
• Operation (max. tilt angle)	0 to +40 °C
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, min.	40 °C
Extended ambient conditions	
• relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 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	
— against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
— against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!
— against mechanically active substances / conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Configuration	
Message indicator	Yes
Alarm logging system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe administration	Yes
Languages	
Online languages	
• Number of online/runtime languages	5
Project languages	
• Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Task planner	Yes
Help system	Yes
• Number of characters per info text	320
Message system	
• Number of alarm classes	32
• Bit messages	
— Number of bit messages	200
• Analog messages	
— Number of analog messages	15
• System messages HMI	Yes
• System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	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), retentive, maintenance-free
— Number of entries	256
— Circulating buffer	Yes

Recipe administration	
• 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	
• S7-200	Yes
• S7-300/400	Yes
• WinAC	No
• SINUMERIK	No
• SIMOTION	No
• Allen Bradley (DF1)	Yes

• Mitsubishi (FX)	Yes
• OMRON (LINK/Multilink)	Yes
• Modicon (Modbus)	Yes
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	335 mm
Height of housing front	275 mm
Mounting cutout, width	310 mm
Mounting cutout, height	248 mm
Overall depth	60 mm
Weights	
Weight without packaging	2.65 kg
Weight incl. packaging	3.52 kg
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