SIEMENS

Data sheet



SIPLUS HMI KTP1200 Basic based on 6AV2123-2MB03-0AX0 with conformal coating, -10...+50 °C, key/touch operation, 12" TFT display, 65536 colors PROFINET interface, configurable as of WinCC Basic V13/STEP 7 Basic V13, contains open source software, which is provided free of charge see enclosed CD-ROM

General information	
Product type designation	KTP1200 Basic color PN
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	12 in
Display width	261.1 mm
Display height	163.2 mm
Number of colors	65 536
Resolution (pixels)	
 Horizontal image resolution 	1 280 pixel
Vertical image resolution	800 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	20 000 h
 Backlight dimmable 	Yes
Control elements	
Keyboard fonts	
 Function keys 	
 Number of function keys 	10
 Number of function keys with LEDs 	0
 Keys with LED 	No
System keys	No
 Numeric keyboard 	Yes; Onscreen keyboard
alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
Design as touch screen	Yes; Analog-resistive
Installation type/mounting	
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	510 mA
Starting current inrush I²t	0.2 A ² ·s
Power	

Active neuroningut to:	12.2 W
Active power input, typ.	12.2 W
Processor	ADM
Processor type	ARM
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	10 Mbyte
Type of output	
Acoustics	
• Buzzer	Yes
Speaker	No
Time of day	
Clock	
 Hardware clock (real-time) 	Yes
 Software clock 	Yes
• retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	1
Number of RS 485 interfaces	0
Number of RS 422 interfaces	0
Number of RS 232 interfaces	0
Number of USB interfaces	1; Up to 16 GB
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	0
With software interfaces	No
Industrial Ethernet	2
Industrial Ethernet status LED	2
Protocols	V
PROFINET	Yes
Supports protocol for PROFINET IO	No No
IRT	No No
PROFIBUS EtherNet/IP	No You
EtherNet/IP MPI	Yes No
	INU
Protocols (Ethernet) • TCP/IP	Yes
TCP/IP DHCP	Yes
• SNMP	Yes
DCP	Yes
• LLDP	Yes
WEB characteristics	
HTTP	No
• HTML	No
Redundancy mode	
Media redundancy	
— MRP	No
Further protocols	
• CAN	No
MODBUS	Yes; Modicon (MODBUS TCP/IP)
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	No
EMC	
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
- Little oldoo / 1, for doc in industrial areas	100
 Limit class B, for use in residential areas 	No

IP65
IP20
Yes
Yes
Yes
No
-10 °C; = Tmin
50 °C
-10 °C; = Tmin
40 °C
-10 °C; = Tmin
40 °C
-10 °C; = Tmin
35 °C
-20 °C
60 °C
5 000 m
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)
100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Yes; Incl. diesel and oil droplets in the air
Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
Yes; Class 3S4 incl. sand, dust, *
Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
Yes; Class 6S3 incl. sand, dust; *
165, Class 055 IIIGI. saliu, dust,
res, class 655 ma. Sand, dust,
Yes; Class 3 (excluding trichlorethylene)
Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible);
Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible);
Yes; Class 3 (excluding trichlorethylene) 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) * The supplied plug covers must remain in place over the unused

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	Yes
pre-installed operating system	100
Windows CE	No
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)	Yes; via integrated WinCC Basic (TIA Portal)
STEP 7 Professional (TIA Portal)	Yes; via integrated WinCC Basic (TIA Portal)
WinCC flexible Compact	No
WinCC flexible Standard	No
 WinCC flexible Advanced 	No
 WinCC Basic (TIA Portal) 	Yes
 WinCC Comfort (TIA Portal) 	Yes
 WinCC Advanced (TIA Portal) 	Yes
 WinCC Professional (TIA Portal) 	Yes
Languages	
Online languages	
 Number of online/runtime languages 	10
Project languages	
 Languages per project 	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
Number of Visual Basic Scripts	No
Task planner	Yes
time-controlled	No
task-controlled	Yes
Help system	Yes
Number of characters per info text	500
Message system	
 Number of alarm classes 	32
Bit messages	
— Number of bit messages	1 000
Analog messages	05
Number of analog messages S7 clarm number procedure.	25 No.
S7 alarm number procedure System massages HMI	No Yes
System messages HMISystem event, more (SIMATIC S7, SINUMERIK,	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
SIMOTION,)	
Number of characters per message Number of process values per message	80
Number of process values per message Acknowledgment groups	8 Vos
Acknowledgment groups Massage indicator	Yes Yes
Message huffer	1 65
Message buffer Number of entries	256
Number of entries Circulating buffer	256 Yes
Circulating buffer retentive	Yes
— maintenance-free	Yes

Yes; Type 1 protection

• Protection against fouling acc. to EN 60664-3

Pacina managament	
Recipe management	60
Number of recipes Date records per recipe	50
Data records per recipe Entries per data record	100
Entries per data record Size of internal regime memory.	100
Size of internal recipe memory Paring recognitions and the second state of the s	256 kbyte
Recipe memory expandable	No
Variables	000
Number of variables per device	800
Number of variables per screen	100
Limit values	Yes
Multiplexing	Yes
Structures	No
• Arrays	Yes
Images	
 Number of configurable images 	250
 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 	100
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 	10
Alarm view	Yes
Trend view	Yes
• User view	Yes
Status/control	No
 Sm@rtClient view 	No
Recipe view	Yes
• f(x) trend view	No
 System diagnostics view 	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
Media Player	No
Bar graphs	Yes
• Sliders	No
 Pointer instruments 	No
Analog/digital clock	No
Lists	
 Number of text lists per project 	300
 Number of entries per text list 	100
- Hamber of Chillies her revision	
Number of entries per text list Number of graphics lists per project	100
 Number of graphics lists per project 	100
Number of graphics lists per projectNumber of entries per graphics list	100
 Number of graphics lists per project Number of entries per graphics list Archiving	100 100
 Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device 	100 100 2
 Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive 	100 100 2 10 000
 Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive 	100 100 2 10 000 Yes
 Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive 	100 100 2 10 000 Yes
 Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods 	100 100 2 10 000 Yes Yes
 Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive 	100 100 2 10 000 Yes Yes

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— Memory card	No
— USB memory	Yes
— Ethernet	No
Data storage format	
— CSV	No
— TXT	Yes
— RDB	No
Security	
 Number of user groups 	50
Number of user rights	32
 Number of users 	50
 Password export/import 	Yes
SIMATIC Logon	No
Character sets	
 Keyboard fonts 	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	No
• USB	No
• 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 	Yes; No access to NCK data
• SIMOTION	Yes
 Allen Bradley (EtherNet/IP) 	Yes
 Allen Bradley (DF1) 	No
 Mitsubishi (MC TCP/IP) 	Yes
Mitsubishi (FX)	No
OMRON (FINS TCP)	No
 OMRON (LINK/Multilink) 	No
 Modicon (Modbus TCP/IP) 	Yes
 Modicon (Modbus) 	No
Service tools/configuration aids	
Backup/Restore manually	Yes
Backup/Restore automatically	No
• Simulation	Yes
Device switchover	Yes
Peripherals/Options	
Printer	No
SIMATIC HMI MM memory card: Multi Media Card	No
SIMATIC HMI SD memory card: Secure Digital memory	No
card	
USB memory	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	Yes
Aluminum	No
Stainless steel	No
Dimensions	
Width of the housing front	330 mm
Height of housing front	245 mm
Mounting cutout, width	310 mm
Mounting cutout, width Mounting cutout, height	221 mm
Overall depth	60 mm
Overall deptil	00 111111

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