## **SIEMENS**

## **Data sheet**



SIPLUS HMI KTP1200 Basic DP based on 6AV2123-2MA03-0AX0 with conformal coating, -10...+50 °C, key/touch operation, 12" TFT display, 65536 colors PROFIBUS 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

Figure similar

Product type designation	KTP1200 Basic color DP
isplay	
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
ontrol elements	
Keyboard fonts	
Function keys	
— Number of function keys	10
<ul> <li>Number of function keys with LEDs</li> </ul>	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
stallation type/mounting	
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
upply 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
put current	
Current consumption (rated value)	550 mA
Starting current inrush I²t	0.2 A <sup>2</sup> ·s

Active power input, typ.	13.2 W
Processor	
Processor type	ARM
	ARIVI
Memory	V
Flash	Yes
RAM	Yes
Memory available for user data	10 Mbyte
Type of output	
Acoustics	
Buzzer	Yes
Speaker	No
Time of day	
Clock	
<ul> <li>Hardware clock (real-time)</li> </ul>	Yes
<ul> <li>Software clock</li> </ul>	Yes
• retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	0
Number of RS 485 interfaces	1
Number of RS 422 interfaces	1; together with RS 485
Number of RS 232 interfaces	0; with optional adapter
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	
Industrial Ethernet status LED	0
Protocols	
PROFINET	No
Supports protocol for PROFINET IO	No
IRT	No
PROFIBUS	Yes
EtherNet/IP	No
MPI	Yes
Protocols (Ethernet)	
• TCP/IP	No
• DHCP	No
• SNMP	No
• DCP	No No
• LLDP	No
WEB characteristics	No
• HTTP	No No
HTML  Redundancy mode	No
Redundancy mode	
Media redundancy	No
— MRP	No
Further protocols  • CAN	No
MODBUS	Yes; Modicon (MODBUS RTU)
	1 66, Middleoff (Middleof Kild)
Interrupts/diagnostics/status information	
Diagnoses	N-
Diagnostic information readable	No
EMC	
Emission of radio interference acc. to EN 55 011	
<ul> <li>Limit class A, for use in industrial areas</li> </ul>	Yes
Limit class B, for use in residential areas	No
Degree and class of protection	
IP (at the front)	IP65

IP (rear) NEMA (front)	IP20
Enclosure Type 4 at the front	Yes
<ul> <li>Enclosure Type 4x at the front</li> </ul>	Yes
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
Operation (vertical installation)	
<ul> <li>For vertical installation, min.</li> </ul>	-10 °C; = Tmin
<ul> <li>For vertical installation, max.</li> </ul>	50 °C
Operation (max. tilt angle)	
<ul> <li>At maximum tilt angle, min.</li> </ul>	-10 °C; = Tmin
— At maximum tilt angle, max.	40 °C
Operation (vertical installation, portrait format)	
<ul> <li>For vertical installation, min.</li> </ul>	-10 °C; = Tmin
For vertical installation, max.	40 °C
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	-10 °C; = Tmin
— At maximum tilt angle, max.	35 °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
<ul> <li>Ambient air temperature-barometric pressure- altitude</li> </ul>	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 when condensation present), vertical mounting position
Resistance	
Coolants and lubricants	
Resistant to commercially available coolants and lubricants  Use in stationary industrial systems	Yes; Incl. diesel and oil droplets in the air
<ul> <li>to biologically active substances according to EN 60721-3-3</li> </ul>	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	Vec. Class 6R2 mold and fungal spores (avaluding found). Class 6R2 on
<ul> <li>to biologically active substances according to EN 60721-3-6</li> </ul>	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); *
<ul> <li>to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
<ul> <li>Against chemically active substances acc. to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04</li> </ul>	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)
Remark	(
<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> </ul>	Yes; Class 2 for high reliability
<ul> <li>Protection against fouling acc. to EN 60664-3</li> </ul>	Yes; Type 1 protection
<ul> <li>Military testing according to MIL-I-46058C, Amendment 7</li> </ul>	Yes; Discoloration of coating possible during service life
<ul> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies</li> </ul>	Yes; Conformal coating, Class A

according to IPC-CC-830A	
Operating systems	
proprietary	Yes
pre-installed operating system	
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	
<ul> <li>STEP 7 Basic (TIA Portal)</li> </ul>	Yes; via integrated WinCC Basic (TIA Portal)
<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	Yes; via integrated WinCC Basic (TIA Portal)
<ul> <li>WinCC flexible Compact</li> </ul>	No
<ul> <li>WinCC flexible Standard</li> </ul>	No
WinCC flexible Advanced	No
WinCC Basic (TIA Portal)	Yes
WinCC Comfort (TIA Portal)	Yes
WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)	Yes
WinCC Professional (TIA Portal)	Yes
Languages	
Online languages	40
Number of online/runtime languages	10
Project languages	20
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	W
Web browser  Number of Minust Basis Conints	Yes
Number of Visual Basic Scripts	No Voc
Task planner  ● time-controlled	Yes 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	
<ul> <li>Number of analog messages</li> </ul>	25
S7 alarm number procedure	No
System messages HMI	Yes
<ul> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> </ul>	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
<ul> <li>Number of characters per message</li> </ul>	80
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
Message buffer	050
Number of entries	256
— Circulating buffer	Yes
<ul><li>— retentive</li><li>— maintenance-free</li></ul>	Yes Yes
Recipe management	1 63
Number of recipes	50
Data records per recipe	100
Entries per data record	100
Size of internal recipe memory	256 kbyte
Recipe memory expandable	No
Variables	
Number of variables per device	800

No contract of contract to a contract	400
Number of variables per screen	100
• Limit values	Yes
Multiplexing	Yes
Structures	No
• Arrays	Yes
Images	250
<ul><li>Number of configurable images</li><li>Permanent window/default</li></ul>	Yes
	Yes
<ul><li>Global image</li><li>Image selection by PLC</li></ul>	Yes
Image selection by PLC     Image number in the PLC	Yes
Image objects	165
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
<ul> <li>Status/control</li> </ul>	No
<ul> <li>Sm@rtClient view</li> </ul>	No
Recipe view	Yes
<ul><li>f(x) trend view</li></ul>	No
<ul> <li>System diagnostics view</li> </ul>	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
Media Player	No
Bar graphs	Yes
<ul> <li>Sliders</li> </ul>	No
- CIIGOTO	
Pointer instruments	No
	No No
<ul><li>Pointer instruments</li><li>Analog/digital clock</li><li>Lists</li></ul>	
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<ul><li>SIMATIC Logon</li><li>Character sets</li><li>Keyboard fonts</li></ul>	No
· · · · · · · · · · · · · · · · · · ·	Yes
Transfer (upload/download)	
	Yes
	No
	No
	No
Process coupling	
	Yes
	Yes; No access to NCK data
	Yes
	No
	Yes
Service tools/configuration aids	103
	Yes
	No
	Yes
	Yes
Peripherals/Options	
	N-
	No No
,	No
SIMATIC HMI SD memory card: Secure Digital memory card	No
	Yes
Mechanics/material	163
Enclosure material (front)	Von
	Yes
	No Na
	No
Dimensions	
ů .	330 mm
	245 mm
0	310 mm
Mounting cutout, width	
Mounting cutout, width Mounting cutout, height	221 mm
Mounting cutout, width  Mounting cutout, height  Overall depth	221 mm 60 mm
Mounting cutout, width Mounting cutout, height	
Mounting cutout, width Mounting cutout, height Overall depth  Weights	
Mounting cutout, width  Mounting cutout, height Overall depth  Weights  Weight (without packaging)	60 mm
Mounting cutout, width Mounting cutout, height Overall depth  Weights  Weight (without packaging) Weight (with packaging)  12	60 mm 