Data sheet



Figure similar

SIPLUS HMI KTP1200 Basic -10...+50°C with conformal coating based on 6AV2123-2MB03-0AX0 . Key/touch "operation, ""12"""" TFT display," 65536 colors PROFINET interface, configurable from 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
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	

Ourset and a second for (rated a shape)	540 0
Current consumption (rated value)	510 mA
Starting current inrush I²t	0.2 A ² ·s
Power	
Active power input, typ.	12.2 W
Processor	
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	160
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
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	No
IRT	No
PROFIBUS	No
MPI	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	No
• HTML	No
Redundancy mode	
Media redundancy	
— MRP	No
Further protocols	
• CAN	No
EtherNet/IP	Yes
• 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
Limit class B, for use in residential areas	No
Degree and class of protection	
NEMA (front)	
Enclosure Type 4 at the front	Yes
 Enclosure Type 4x at the front 	Yes
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; = Tmin
 For vertical installation, max. 	50 °C
 Operation (max. tilt angle) 	
At maximum tilt angle, min.	-10 °C; = Tmin
At maximum tilt angle, min.	40 °C
Operation (vertical installation, portrait format)	
— For vertical installation, min.	-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, min.— At maximum tilt angle, min.	-10 °C; = Tmin 35 °C
Ambient temperature during storage/transportation	33 C
• 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 030 11Fa 340 11Fa (+3 300 111 +3 000 111)
With condensation, tested in accordance with IEC	100 %; RH incl. condensation / frost (no commissioning in bedewed
60068-2-38, max.	state), horizontal installation
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; *
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 	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	
 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!

Coatings for printed circuit board assemblies acc. to EN 1908 Protection against fouling acc. to EN 00864-3 * Milliary testing according to MIL-14608C, Amendment 7 * Coulification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A **Operating systems** **Proporticary** **Vindows CE** **Vindows CE** **Vindows CE** **Vindows CE** **One figuration** **Ves* **Ve	October 1 - 1 - 1 - 1	
EN 61986 * Protection against fouling acc. to EN 60864-3 * Military testing according to MilL-146080C, Amendment 7 * Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-380A * Operating systems * Proprietary * Process value default (input) possible * Size P.7 Basic (TA Portal) * Vinc G. Reible Standard * WinCC Reible Standard * WinCC Gentior (TA Portal) * WinCC Centrol (TA Portal) * WinCC Maximed (TIA Portal) * WinCC Maximed (TIA Portal) * WinCC Maximed (TA Portal) * WinCC Maximed (TA Portal) * WinC WinC WinC (TA Portal) * WinC Control (WinC (TA Portal) * WinC WinC WinC (TA Po	Conformal coating	Vaca Olaca O fan kirk anliel '''
Millary tosting according to MiL-I-4605BC, Amendment 7		Yes; Class 2 for high reliability
Amendment 7 - Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IP-CC-890A Operating systems - Windows CE - Wes - Wes - Wes - Wes - Process value display (output) - Yes - Process value display (output) - Yes - Process value display (output) - Wes - Process value display (output) - Windows CE - Windows CE - Windows CE - Windows CE - Wes - Windows Ce - Wes - Wes - Wes - Windows Ce - Windows Ce - Wes - Windows Ce - Windows Ce - Wes - Windows Ce - Windows Ce - Wes - Windows Ce - Windows	 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
Amendment 7 - Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IP-CC-890A Operating systems - Windows CE - Wes - Wes - Wes - Wes - Process value display (output) - Yes - Process value display (output) - Yes - Process value display (output) - Wes - Process value display (output) - Windows CE - Windows CE - Windows CE - Windows CE - Wes - Windows Ce - Wes - Wes - Wes - Windows Ce - Windows Ce - Wes - Windows Ce - Windows Ce - Wes - Windows Ce - Windows Ce - Wes - Windows Ce - Windows	 Military testing according to MIL-I-46058C, 	Yes; Discoloration of coating possible during service life
Insulating Compound for Printed Board Assemblies according to IPC-CC-80A Operating systems proprietary proprietary windows CE windows CE No Configuration Message indicator Alam system (Lo buffer and acknowledgment) Process value display (output)	Amendment 7	
according to IPC-CC-830A Operating systems proprietary pre-installed operating system - Windrow CE - No Configuration Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value display (output		Yes; Conformal coating, Class A
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Message huffer		Yes
- moodago bunoi	Message buffer	

	0.00
— Number of entries	256
 Circulating buffer 	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management	
 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
 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	100
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	100
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
	Yes
Bar graphsSliders	
	No No
Pointer instruments Analog/digital clock	No No
Analog/digital clock Liete	No
Lists	200
Number of text lists per project Number of certains per text list	300
Number of entries per text list	100
Number of graphics lists per project	100
Number of entries per graphics list	100
Archiving	
Number of archives per device	2
 Number of entries per archive 	10 000

Message archive	Yes
 Process value archive 	Yes
 Archiving methods 	
 Sequential archive 	Yes
— Short-term archive	Yes
 Memory location 	
— Memory card	No
— USB memory	Yes
— Ethernet	No
Data storage format	
— CSV	No
— TXT	Yes
— RDB	No
	NO
Security	50
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 manually 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 card	No
USB memory	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	Yes
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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, height	221 mm
Overall depth	60 mm
Weights	
Weight without packaging	1 710 g
Weight incl. packaging	2.2 kg

last modified: 12/18/2020 ☑