SIEMENS

Data sheet

6AG1123-2GB03-2AX0



SIPLUS HMI KTP700 Basic Color PN based on 6AV2123-2GB03-0AX0 with conformal coating, -20...+50 °C, 7" TFT display, 65536 colors PROFINET interface

Figure similar

General information	
Product type designation	KTP700 Basic color PN
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	7 in
Display width	154.1 mm
Display height	85.9 mm
Number of colors	65 536
Resolution (pixels)	
 Horizontal image resolution 	800 pixel
Vertical image resolution	480 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	20 000 h
 Backlight dimmable 	Yes
Control elements	
Keyboard fonts	
 Function keys 	
 — Number of function keys 	8
 — 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)	230 mA
Starting current inrush I ² t	0.2 A ² ·s

Power	
Active power input, typ.	5.5 W
Processor	
Processor type	ARM
Memory	70.00
Flash	Yes
RAM	Yes
Memory available for user data	10 Mbyte
	TO MDyte
Type of output	
Acoustics	
• Buzzer	Yes
• Speaker	No
Time of day	
Clock	
 Hardware clock (real-time) 	Yes
Software clock	Yes
retentive	Yes
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	
Industrial Ethernet status LED	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	No
IRT	No
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	No
HTML	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
• Limit class B, for use in residential areas	No
Degree and class of protection	
IP (at the front)	IP65

IP (rear)	IP20
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.	-20 °C
— For vertical installation, max.	50 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	-20 °C
— At maximum tilt angle, max.	40 °C
Operation (vertical installation, portrait format)	
— For vertical installation, min.	-20 °C
— For vertical installation, max.	40 °C
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	-20 °C
— 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
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; *
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!
 — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and 	
 — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating Coatings for printed circuit board assemblies acc. to 	interfaces during operation!

Amendment 7

• 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	
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
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 	
 — Number of analog messages 	25
 S7 alarm number procedure 	No
 System messages HMI 	Yes
 System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) 	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
 Number of characters per message 	80
 Number of process values per message 	8
 Acknowledgment groups 	Yes
 Message indicator 	Yes
 Message buffer 	Yes
— 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	
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
	Yes
 Graphic display Icons 	Yes
Geometric objects	Yes
Complex image objects	10
 Number of complex objects per screen Alarm view 	Yes
• Trend view	Yes
User view	Yes
Status/control	No
Sm@rtClient view	No
Recipe view	Yes
• f(x) trend view	
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	150
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	

- RDS Yes - RDS No Security • Kumber of user groups 50 • Kumber of user synthmopt Yes, Possible via ProSave • Reseword sport/import Yes, Possible via ProSave • Reseword sport/import Yes, Possible via ProSave • Reseword forts - - US English Yes Transfer (upload/download) - • MPPPOPCRIBUS DP No • USIS No • USIS No • S7:120 Yes • S7:120 Yes • S7:1300 Yes • S8/NOTION Yes • S8/NOTION Yes • S8/NOTION Yes • S8/NOTION Yes • Monitorially (DF1) No • Monitondially (DF1)	— CSV	No
Security 50 • Number of user rights 32 • Number of users 30 • Number of users 30 • Rassword export/import Yes, Possible via ProSave • Baskmord export/import Yes, Possible via ProSave • SMATTC Logon No • Character sets		
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• Mitsubishi (FX) No • OMRON (LINK/Mutilink) No • Modicon (Modbus) TCP/IP) Yes • Modicon (Modbus) No Service tools/configuration aids		
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• Modicon (Modbus) No Service tools/configuration aids • • Backup/Restore nanually Yes; Possible via ProSave • Backup/Restore automatically No • Simulation Yes • Device switchover Yes Pripherals/Options No SIMATIC HMI MM memory card: Multi Media Card No SIMATIC HMI MM memory card: Secure Digital memory card No SIMATIC HMI SD memory card: Secure Digital memory card No Gathering Yes Mechanics/material No Enclosure material (front) Yes • Plastic Yes • Aluminum No • Stainless steel No Dimensions 214 mm Width of the housing front 158 mm Mounting cutout, width 197 mm Mounting cutout, width 197 mm Mounting cutout, keight 141 mm Overall depth 39 mm Weight (without packaging) 780 g Weight (with packaging) 990 g		
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