## 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

Fig	gure	simi	ar

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)		
<ul> <li>Horizontal image resolution</li> </ul>	800 pixel	
Vertical image resolution	480 pixel	
Backlighting		
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	20 000 h	
Backlight dimmable	Yes	
Control elements		
Keyboard fonts		
<ul> <li>Function keys</li> </ul>		
<ul> <li>— Number of function keys</li> </ul>	8	
<ul> <li>— Number of function keys with LEDs</li> </ul>	0	
<ul> <li>Keys with LED</li> </ul>	No	
<ul> <li>System keys</li> </ul>	No	
<ul> <li>Numeric keyboard</li> </ul>	Yes; Onscreen keyboard	
<ul> <li>alphanumeric keyboard</li> </ul>	Yes; Onscreen keyboard	
Touch operation		
<ul> <li>Design as touch screen</li> </ul>	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 <sup>2</sup> t	0.2 A <sup>2</sup> ·s	

Power		
Active power input, typ.	5.5 W	
Processor		
Processor type	ARM	
Memory		
Flash	Yes	
RAM	Yes	
Memory available for user data	10 Mbyte	
Type of output		
Acoustics	Vee	
Buzzer	Yes No	
• Speaker	NO	
Time of day		
Clock	N.	
Hardware clock (real-time)	Yes	
Software clock	Yes	
retentive	Yes	
synchronizable	Yes	
Interfaces		
Number of industrial Ethernet interfaces		
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		
With software interfaces Industrial Ethernet	No	
Industrial Ethernet     status LED	2	
Protocols	2	
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		
<ul> <li>Limit class A, for use in industrial areas</li> </ul>	Yes	
<ul> <li>Limit class B, for use in residential areas</li> </ul>	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	10	
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, min. — 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-	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		
With condensation, tested in accordance with IEC	100 %; RH incl. condensation/frost (no commissioning under	
60068-2-38, max.	condensation conditions)	
Resistance Coolants and lubricants		
— Resistant to commercially available coolants	Yes; Incl. diesel and oil droplets in the air	
and lubricants		
Use in stationary industrial systems		
<ul> <li>to biologically active substances according to</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of	
EN 60721-3-3	fauna); Class 3B3 on request	
<ul> <li>— to chemically active substances according to</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52	
EN 60721-3-3	(severity degree 3); *	
EN 60721-3-3 — to mechanically active substances according to		
EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3	(severity degree 3); *	
EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, *	
EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on	
EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to EN 60721-3-6	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	
EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on	
EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to	(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	
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<ul> <li>EN 60721-3-3 <ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul> </li> <li>Use on ships/at sea <ul> <li>to biologically active substances according to EN 60721-3-6</li> <li>to chemically active substances according to EN 60721-3-6</li> <li>to mechanically active substances according to EN 60721-3-6</li> </ul> </li> <li>Usage in industrial process technology <ul> <li>Against chemically active substances acc. to EN 6054-4</li> </ul> </li> </ul>	(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; * Yes; Class 3 (excluding trichlorethylene)	
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<ul> <li>EN 60721-3-3 <ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul> </li> <li>Use on ships/at sea <ul> <li>to biologically active substances according to EN 60721-3-6</li> <li>to chemically active substances according to EN 60721-3-6</li> <li>to mechanically active substances according to EN 60721-3-6</li> </ul> </li> <li>Usage in industrial process technology <ul> <li>Against chemically active substances acc. to EN 6054-4</li> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-</li> </ul> </li> </ul>	<pre>(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 &lt; 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas</pre>	
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<ul> <li>EN 60721-3-3 <ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul> </li> <li>Use on ships/at sea <ul> <li>to biologically active substances according to EN 60721-3-6</li> <li>to chemically active substances according to EN 60721-3-6</li> <li>to mechanically active substances according to EN 60721-3-6</li> </ul> </li> <li>Usage in industrial process technology <ul> <li>Against chemically active substances acc. to EN 60654-4</li> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul> </li> <li>Remark <ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul> </li> <li>Conformal coating <ul> <li>Coatings for printed circuit board assemblies acc. to</li> </ul> </li> </ul>	<pre>(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 &lt; 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * 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 interfaces during operation!</pre>	

## Amendment 7

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• 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)
<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	Yes; via integrated WinCC Basic (TIA Portal)
WinCC flexible Compact	No
WinCC flexible Standard	No
<ul> <li>WinCC flexible Advanced</li> </ul>	No
WinCC Basic (TIA Portal)	Yes
WinCC Comfort (TIA Portal)	Yes
WinCC Advanced (TIA Portal)	Yes
WinCC Professional (TIA Portal)	Yes
Languages	
Online languages	
<ul> <li>Number of online/runtime languages</li> </ul>	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
<ul> <li>Number of characters per info text</li> </ul>	500
Message system	
Number of alarm classes	32
Bit messages	
— Number of bit messages	1 000
<ul> <li>Analog messages</li> </ul>	
— Number of analog messages	25
• S7 alarm number procedure	No
<ul> <li>System messages HMI</li> </ul>	Yes
System event, more (SIMATIC S7, SINUMERIK,	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
SIMOTION, )	
<ul> <li>Number of characters per message</li> </ul>	80
<ul> <li>Number of process values per message</li> </ul>	8
<ul> <li>Acknowledgment groups</li> </ul>	Yes
Message indicator	Yes
Message buffer	Yes
- Number of entries	256
— Circulating buffer	Yes
— retentive	Yes
- maintenance-free	Yes
Recipe management	
Number of recipes	=0
	50
Data records per recipe	100

<ul> <li>Size of internal recipe memory</li> </ul>	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
<ul> <li>Graphic display</li> <li>Icons</li> </ul>	Yes
Geometric objects	Yes
Complex image objects	10
<ul> <li>Number of complex objects per screen</li> <li>Alarm view</li> </ul>	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
<ul> <li>Number of graphics lists per project</li> </ul>	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
— CSV — TXT	Yes
— RDB	No
Security	NU
Number of user groups	50
Number of user rights	32
Number of users	50
Password export/import	Yes; Possible via ProSave
SIMATIC Logon	No
Character sets	NO
Keyboard fonts	
– US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	No
• USB	No
Ethernet	Yes
using external storage medium	No
Process coupling	INU
S7-1200	Yes
• S7-1200 • S7-1500	Yes
• \$7-1500 • \$7-200	Yes
• \$7-200 • \$7-300/400	Yes
• 57-300/400 • LOGO!	Yes
• WinAC	Yes
• SINUMERIK	No
SINOMERIK     SIMOTION	Yes
	Yes
Allen Bradley (EtherNet/IP)	
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	Vee Dessible via DreCeve
Backup/Restore manually	Yes; Possible via ProSave
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
	Yes
USB memory	
Mechanics/material	
Enclosure material (front)	N .
Plastic	Yes
• Aluminum	No
Stainless steel	No
Dimensions	
Width of the housing front	214 mm
Height of housing front	158 mm
Mounting cutout, width	197 mm
Mounting cutout, height	141 mm
Overall depth	39 mm
Weights	
Weight (without packaging)	780 g
Weight (with packaging)	990 g
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