6AG1124-1GC01-4AX0

**Data sheet** 

SIPLUS HMI KP700 Comfort based on 6AV2124-1GC01-0AX0 with conformal coating, 0...+50  $^{\circ}\text{C},$ 



Figure similar

General information	
Product type designation	KP700 Comfort
Display	
Design of display	TFT
Screen diagonal	7 in
Display width	152.4 mm
Display height	91.4 mm
Number of colors	16 777 216
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>	80 000 h
<ul> <li>Backlight dimmable</li> </ul>	Yes; 0-100 %
Control elements	
Keyboard fonts	
<ul> <li>Function keys</li> </ul>	
<ul> <li>Number of function keys</li> </ul>	24
<ul> <li>Number of function keys with LEDs</li> </ul>	24
<ul> <li>Keys with LED</li> </ul>	Yes
<ul> <li>System keys</li> </ul>	Yes
<ul> <li>Numeric keyboard</li> </ul>	Yes
alphanumeric keyboard	Yes; similar to mobile phone
Touch operation	
Design as touch screen	No; without
Expansions for operator control of the process	
<ul> <li>DP direct LEDs (LEDs as S7 output I/O)</li> </ul>	
— F1Fx	24
<ul> <li>Direct keys (keys as S7 input I/O)</li> </ul>	
— F1Fx	24
<ul> <li>Direct keys (touch buttons as S7 input I/O)</li> </ul>	0
Installation type/mounting	
Mounting position	vertical
Wall mounting/direct mounting	No
Mounting in portrait format possible	No
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°

Supply voltage	
Type of supply voltage	DC
	24 V
Rated value (DC)	
permissible range, lower limit (DC) permissible range, upper limit (DC)	19.2 V 28.8 V
	20.0 V
Input current	
Current consumption (rated value)	0.5 A
Starting current inrush I2t	0.5 A <sup>2</sup> ·s
Power	
Active power input, typ.	12 W
Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	
Info LED	Yes
Power LED	No
Error LED	No
Acoustics	110
Buzzer	No
Speaker	Yes
	165
Time of day	
Clock	V
Hardware clock (real-time)	Yes
Software clock	No
• retentive	Yes
• synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	2
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 485 interfaces Number of RS 422 interfaces	1; RS 422 / 485 combined
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces	1; RS 422 / 485 combined  1 0
Number of RS 485 interfaces Number of RS 422 interfaces	1; RS 422 / 485 combined  1 0 2; USB 2.0
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 2
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 2
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 2
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Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet  Industrial Ethernet status LED	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 2 No
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet  • Industrial Ethernet status LED  • Number of ports of the integrated switch	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 2 No
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet  • Industrial Ethernet status LED  • Number of ports of the integrated switch	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
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Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet  • Industrial Ethernet status LED  • Number of ports of the integrated switch  Protocols  PROFINET  Supports protocol for PROFINET IO  IRT  PROFIBUS  EtherNet/IP	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No  2 No  Yes Yes Yes; With WinCC, subsequent version Yes Yes
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet  • Industrial Ethernet status LED  • Number of ports of the integrated switch  Protocols  PROFINET  Supports protocol for PROFINET IO  IRT  PROFIBUS  EtherNet/IP  MPI	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No  2 No  Yes Yes Yes; With WinCC, subsequent version Yes Yes
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Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet  • Industrial Ethernet status LED  • Number of ports of the integrated switch  Protocols  PROFINET  Supports protocol for PROFINET IO  IRT  PROFIBUS  EtherNet/IP  MPI  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No  Yes Yes Yes Yes; With WinCC, subsequent version Yes Yes Yes Yes Yes Yes Yes Yes
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Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet  Industrial Ethernet status LED  Number of ports of the integrated switch  Protocols  PROFINET  Supports protocol for PROFINET IO  IRT  PROFIBUS  EtherNet/IP  MPI  Protocols (Ethernet)  TCP/IP  DHCP  SNMP  OCP	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

• HTTPS	No
• HTML	Yes
• XML	No
• CSS	Yes
<ul> <li>Active X</li> </ul>	No
<ul> <li>JavaScript</li> </ul>	Yes
<ul> <li>Java VM</li> </ul>	No
Redundancy mode	
Media redundancy	
— MRP	Yes; With WinCC, subsequent version
Further protocols	
• CAN	No
• MODBUS	Yes
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	Yes; S7 controller
EMC	
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
Limit class A, for use in industrial areas     Limit class B, for use in residential areas	Yes No
·	INO
Degree and class of protection	IDAE
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)	
<ul> <li>For vertical installation, min.</li> </ul>	0 °C; = Tmin
For vertical installation, max.	50 °C; = Tmax
Operation (max. tilt angle)	
— At maximum tilt angle, min.	0 °C; = Tmin
— At maximum tilt angle, max.	40 °C; = Tmax
Operation (vertical installation, portrait format)	
<ul><li>For vertical installation, min.</li></ul>	0 °C; = Tmin
<ul> <li>For vertical installation, max.</li> </ul>	40 °C; = Tmax
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	0 °C; = Tmin
— At maximum tilt angle, max.	35 °C; = Tmax
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	5 000 m
<ul> <li>Ambient air temperature-barometric pressure-</li> </ul>	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
Polativo humidity	(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	100 %: PH incl. condensation/frost (no commissioning under
<ul> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> </ul>	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	., .,
Coolants and lubricants	
Resistant to commercially available coolants	Yes; Incl. diesel and oil droplets in the air
and lubricants	. 55,or dioor and on diophoto in the dii
Use in stationary industrial systems	
— to biologically active substances according to	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 00704 0 0	/ ''   0) +
EN 60721-3-3	(severity degree 3); *
<ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
<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
<ul> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
<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 according to IPC-CC-830A</li> </ul>	Yes; Conformal coating, Class A
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes
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>	
	No
• STEP 7 Professional (TIA Portal)	No
<ul><li>STEP 7 Professional (TIA Portal)</li><li>WinCC flexible Compact</li></ul>	No No
<ul><li>STEP 7 Professional (TIA Portal)</li><li>WinCC flexible Compact</li><li>WinCC flexible Standard</li></ul>	No No No
<ul> <li>STEP 7 Professional (TIA Portal)</li> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> </ul>	No No No
<ul> <li>STEP 7 Professional (TIA Portal)</li> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> </ul>	No No No No
<ul> <li>STEP 7 Professional (TIA Portal)</li> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> <li>WinCC Comfort (TIA Portal)</li> </ul>	No No No No No Yes; from V11
<ul> <li>STEP 7 Professional (TIA Portal)</li> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> <li>WinCC Comfort (TIA Portal)</li> <li>WinCC Advanced (TIA Portal)</li> </ul>	No No No No No Yes; from V11 Yes; from V11
<ul> <li>STEP 7 Professional (TIA Portal)</li> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> <li>WinCC Comfort (TIA Portal)</li> <li>WinCC Advanced (TIA Portal)</li> <li>WinCC Professional (TIA Portal)</li> </ul>	No No No No No Yes; from V11
<ul> <li>STEP 7 Professional (TIA Portal)</li> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> <li>WinCC Comfort (TIA Portal)</li> <li>WinCC Advanced (TIA Portal)</li> <li>WinCC Professional (TIA Portal)</li> </ul>	No No No No No Yes; from V11 Yes; from V11
STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)  Tanguages  Online languages	No No No No No Yes; from V11 Yes; from V11
STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)  WinCC Professional (TIA Portal)  Languages  Online languages  Number of online/runtime languages	No No No No No Yes; from V11 Yes; from V11
STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)  Tanguages  Online languages  Number of online/runtime languages  Project languages	No No No No No Yes; from V11 Yes; from V11 Yes; from V11
STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)  Tanguages  Online languages  Number of online/runtime languages  Languages per project	No No No No No Yes; from V11 Yes; from V11
STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)  WinCC Professional (TIA Portal)  Languages  Online languages  Number of online/runtime languages  Project languages  Languages per project  Functionality under WinCC (TIA Portal)	No No No No No Yes; from V11 Yes; from V11 32
STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)  WinCC Professional (TIA Portal)  Languages  Online languages  Number of online/runtime languages  Project languages  Languages per project  Functionality under WinCC (TIA Portal)  Libraries	No No No No No Yes; from V11 Yes; from V11 Yes; from V11
STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)  WinCC Professional (TIA Portal)  Languages  Online languages  Number of online/runtime languages  Project languages  Languages per project  Functionality under WinCC (TIA Portal)  Libraries  Applications/options	No No No No Yes; from V11 Yes; from V11 Yes; from V11 Yes; from V11
STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)  MinCC Professional (TIA Portal)  Languages  Online languages  Number of online/runtime languages  Project languages  Languages per project  Functionality under WinCC (TIA Portal)  Libraries  Applications/options  Web browser	No No No No No Yes; from V11 Yes; from V11  32  32  Yes  Yes
STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)  WinCC Professional (TIA Portal)  Languages  Online languages  Number of online/runtime languages  Project languages  Languages per project  Functionality under WinCC (TIA Portal)  Libraries  Applications/options  Web browser  Pocket Word	No No No No No Yes; from V11 Yes; from V11  Yes; from V11   32  Yes  Yes
STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)  WinCC Professional (TIA Portal)  Languages  Online languages  Number of online/runtime languages  Project languages  Languages per project  Functionality under WinCC (TIA Portal)  Libraries  Applications/options  Web browser  Pocket Word  Pocket Excel	No No No No No Yes; from V11 Yes; from V11 Yes; from V11  32  Yes  Yes  Yes  Yes  Yes
STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)  WinCC Professional (TIA Portal)  Languages  Online languages  Number of online/runtime languages  Project languages  Languages per project  Functionality under WinCC (TIA Portal)  Libraries  Applications/options  Web browser  Pocket Word  Pocket Excel  PDF Viewer	No No No No No Yes; from V11 Yes; from V11 Yes; from V11  32  32  Yes Yes Yes Yes Yes Yes Yes
STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)  WinCC Professional (TIA Portal)  Languages  Online languages  Number of online/runtime languages  Project languages  Languages per project  Functionality under WinCC (TIA Portal)  Libraries  Applications/options  Web browser  Pocket Word  Pocket Excel	No No No No No Yes; from V11 Yes; from V11 Yes; from V11  32  32  Yes Yes Yes Yes

SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	
• time-controlled	Yes
task-controlled	Yes
Message system	
Number of alarm classes	32
Bit messages	
Number of bit messages	4 000
Analog messages	
<ul> <li>Number of analog messages</li> </ul>	200
S7 alarm number procedure	Yes
System messages HMI	Yes
<ul> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> </ul>	Yes
<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
Recipe management	
<ul> <li>Number of recipes</li> </ul>	300
<ul> <li>Data records per recipe</li> </ul>	500
<ul> <li>Entries per data record</li> </ul>	1 000
<ul> <li>Size of internal recipe memory</li> </ul>	2 Mbyte
Recipe memory expandable	Yes
Variables	
<ul> <li>Number of variables per device</li> </ul>	2 048
<ul> <li>Number of variables per screen</li> </ul>	400
Limit values	Yes
<ul> <li>Multiplexing</li> </ul>	Yes
Structures	Yes
• Arrays	Yes
Images	
Number of configurable images	500
Permanent window/default	Yes
Global image     Image selection by PLC	Yes
Image selection by PLC     Image selection by PLC	Yes
Image number in the PLC     Image abjects	Yes
Image objects	400
Number of objects per image     Tout fields	400 Voa
<ul><li>Text fields</li><li>I/O fields</li></ul>	Yes
	Yes Yes
Graphic I/O fields (graphics list)     Symbolic I/O fields (toyt list)	
<ul><li>Symbolic I/O fields (text list)</li><li>Date/time fields</li></ul>	Yes Yes
Date/time fields     Switches	Yes
Buttons	Yes
Graphic display	Yes
Icons	Yes
Geometric objects	Yes
Complex image objects	100
Number of complex objects per screen	20
Alarm view	Yes
Trend view	Yes
User view	Yes
Status/control	Yes
Sm@rtClient view	Yes
Recipe view	Yes
<ul><li>f(x) trend view</li></ul>	Yes
System diagnostics view	Yes
• Cystem diagnostics view	100

Media Player	Yes
Bar graphs	Yes
Sliders	Yes
Pointer instruments	Yes
Analog/digital clock  Lists	Yes
Number of text lists per project	500
Number of text lists per project     Number of entries per text list	500
Number of entires per text list     Number of graphics lists per project	500
Number of graphics lists per project     Number of entries per graphics list	500
Archiving	300
Number of archives per device	50
Number of entries per archive	20 000
Message archive	Yes
Process value archive	Yes
Archiving methods	165
Sequential archive	Yes
Sequential archive      Short-term archive	Yes
Memory location	100
Memory card	Yes
— USB memory	Yes
— USB memory — Ethernet	Yes
Data storage format	165
	Yes
— CSV	
— TXT	Yes
— RDB	Yes
Security  • Number of user groups	50
<ul><li>Number of user groups</li><li>Number of user rights</li></ul>	32
Number of user rights     Number of users	50
Password export/import	Yes
SIMATIC Logon	Yes
Logging through printer	Tes
Alarms	Yes
Report (shift log)	Yes
Hardcopy	Yes
Electronic print to file	Yes; PDF, HTML
Character sets	165, 1 DI , III WIL
Keyboard fonts	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
• USB	Yes
• 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	No
• SIMOTION	No; With WinCC, subsequent version
Allen Bradley (EtherNet/IP)	Yes
Allen Bradley (DF1)	Yes
Mitsubishi (MC TCP/IP)	Yes
Mitsubishi (FX)	Yes
OMRON (FINS TCP)	No
OMRON (LINK/Multilink)	Yes
JOINTON (ETIALAMINICHINA)	100

Modicon (Modbus TCP/IP)	Yes
Modicon (Modbus)	Yes
Service tools/configuration aids	
Backup/Restore manually	Yes
Backup/Restore automatically	Yes
<ul> <li>Simulation</li> </ul>	Yes
<ul> <li>Device switchover</li> </ul>	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes
USB memory	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	No
Aluminum	Yes
<ul> <li>Stainless steel</li> </ul>	No
Dimensions	
Width of the housing front	308 mm
Height of housing front	204 mm
Mounting cutout, width	281 mm
Mounting cutout, height	177 mm
Overall depth	63 mm
Weights	
Weight (without packaging)	2.2 kg
Weight (with packaging)	2.8 kg

last modified: 10/7/2021 🖸