SIEMENS

Data sheet

6AG1124-1MC01-4AX0

SIPLUS HMI KP1200 Comfort based on 6AV2124-1MC01-0AX0 with conformal coating, 0...+50 $^\circ C,$



General information		
Product type designation	KP1200 Comfort	
Display		
Design of display	TFT	
Screen diagonal	12.1 in	
Display width	261.1 mm	
Display height	163.2 mm	
Number of colors	16 777 216	
Resolution (pixels)		
 Horizontal image resolution 	1 280 pixel	
 Vertical image resolution 	800 pixel	
Backlighting		
 MTBF backlighting (at 25 °C) 	80 000 h	
 Backlight dimmable 	Yes; 0-100 %	
Control elements		
Keyboard fonts		
 Function keys 		
 — Number of function keys 	34	
 — Number of function keys with LEDs 	34	
 Keys with LED 	Yes	
 System keys 	Yes	
 Numeric keyboard 	Yes	
 alphanumeric keyboard 	Yes; similar to mobile phone	
Touch operation		
 Design as touch screen 	No; without	
Expansions for operator control of the process		
 DP direct LEDs (LEDs as S7 output I/O) 		
— F1Fx	34	
 Direct keys (keys as S7 input I/O) 		
— F1Fx	34	
 Direct keys (touch buttons as S7 input I/O) 	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		

	DC
Type of supply voltage	24 V
Rated value (DC)	
permissible range, lower limit (DC)	19.2 V 28.8 V
permissible range, upper limit (DC)	20.0 V
Input current	
Current consumption (rated value)	0.85 A
Starting current inrush I ² t	0.5 A ² ·s
Power	
Active power input, typ.	20 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	
• Buzzer	No
Speaker	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	No
retentive	Yes
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	2
Number of industrial Ethernet interfaces	2 1: PS 422 / 485 combined
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 1
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 Number of RS 232 interfaces Number of USB 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 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	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 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 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 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 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	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 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 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
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 2 2 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 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 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 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 0 2 No 2 2 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	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 2 No Yes Yes; With WinCC, subsequent version
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	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 2 No 2 2 2 2 2 Yes Yes; With WinCC, subsequent version 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	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 2 No 2 2 2 2 2 2 Yes Yes; With WinCC, subsequent version 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 0 0 0 2 No 2 2 2 2 2 Yes Yes; With WinCC, subsequent version 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 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)	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 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 SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 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 • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 0 0 0 0 0 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 Industrial Ethernet • Industrial Ethernet • 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 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 SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet • Industrial Ethernet • 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 • DCP	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 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 barallel 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 • DCP • LLDP	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 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 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 • DCP • LLDP WEB characteristics	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 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 barallel 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 • DCP • LLDP	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2

	No.
• HTML	Yes
• XML	No
• CSS	Yes
Active X	No
 JavaScript 	Yes
• Java VM	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 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	
	N
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
Operation (vertical installation)	0.80. Taria
— For vertical installation, min.	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)	
— For vertical installation, min.	0 °C; = Tmin
— For vertical installation, max.	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.	0° 00
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	(Thiax -20 K) at 050 hir a 040 hir a (+5 500 hir +5 000 hir)
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 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); *
	() **5.** /,

 — 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!
Conformal coating	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	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	Na
STEP 7 Basic (TIA Portal)	No
 STEP 7 Professional (TIA Portal) WinCC flexible Compact 	No
WinCC flexible Compact WinCC flexible Standard	No
WinCC flexible Advanced	No
WinCC Basic (TIA Portal)	No
WinCC Comfort (TIA Portal)	Yes; from V11
WinCC Advanced (TIA Portal)	Yes; from V11
WinCC Professional (TIA Portal)	Yes; from V11
Languages	
Online languages	
 Number of online/runtime languages 	32
Project languages	
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
Pocket Word	Yes
Pocket Excel	Yes
PDF Viewer	Yes
Media Player	Yes
SIMATIC WinCC Sm@rtServer	Yes
SIMATIC WinCC Audit	Yes

Number of Visual Basic Scripts	Yes
Task planner	
• time-controlled	Yes
time-controlled task-controlled	Yes
Message system	
Number of alarm classes	32
Bit messages	52
Mumber of bit messages	4 000
-	4 000
 Analog messages — Number of analog messages 	200
S7 alarm number procedure	Yes
System messages HMI	Yes
System messages min System event, more (SIMATIC S7, SINUMERIK,	Yes
SIMOTION,)	
 Number of characters per message 	80
 Number of process values per message 	8
Acknowledgment groups	Yes
Message indicator	Yes
Recipe management	
Number of recipes	300
 Data records per recipe 	500
 Entries per data record 	1 000
 Size of internal recipe memory 	2 Mbyte
 Recipe memory expandable 	Yes
Variables	
 Number of variables per device 	2 048
 Number of variables per screen 	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
Images	
 Number of configurable images 	500
	X oo
Permanent window/default	Yes
Global image	Yes
Global imageImage selection by PLC	Yes Yes
 Global image Image selection by PLC Image number in the PLC 	Yes
 Global image Image selection by PLC Image number in the PLC 	Yes Yes Yes
Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image	Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields 	Yes Yes Yes 400 Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields 	Yes Yes Yes 400 Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) 	Yes Yes 400 Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) 	Yes Yes 400 Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields 	Yes Yes 400 Yes Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches 	Yes Yes 400 Yes Yes Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons 	Yes Yes 400 Yes Yes Yes Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display 	Yes Yes 400 Yes Yes Yes Yes Yes Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects 	Yes Yes 400 Yes Yes Yes Yes Yes Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects Complex image objects	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects Complex image objects	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects Complex image objects Number of complex objects per screen Alarm view 	Yes Yes Yes 400 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects Complex image objects Number of complex objects per screen Alarm view Trend view 	Yes Yes Yes 400 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects Complex image objects Number of complex objects per screen Alarm view Trend view User view Status/control 	Yes Yes Yes 400 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects Complex image objects Number of complex objects per screen Alarm view Trend view Status/control Sm@rtClient view 	Yes Yes Yes 400 Yes Y
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects Complex image objects Number of complex objects per screen Alarm view Trend view User view Status/control Sm@rtClient view Recipe view 	Yes Yes 400 Yes Y
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects Complex image objects Number of complex objects per screen Alarm view Trend view Status/control Sm@rtClient view f(x) trend view f(x) trend view 	Yes Yes 400 Yes Y
 Global image Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects Complex image objects Number of complex objects per screen Alarm view Trend view User view Status/control Sm@rtClient view Recipe view 	Yes Yes 400 Yes Y

- Der sterke	Vee
• Bar graphs	Yes
• Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Lists	500
Number of text lists per project	500
Number of entries per text list	500
Number of graphics lists per project	500
Number of entries per graphics list	500
Archiving	50
Number of archives per device	
Number of entries per archive	20 000
 Message archive Process value archive 	Yes
	Tes
Archiving methods	Vee
 — Sequential archive — Short-term archive 	Yes
	Yes
Memory location	Vee
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	
- CSV	Yes
— TXT	Yes
- RDB	Yes
Security	50
Number of user groups	
Number of user rights	32 50
Number of users	
Password export/import	Yes
SIMATIC Logon	Yes
Logging through printer • Alarms	Yes
	Yes
Report (shift log)	Yes
HardcopyElectronic print to file	Yes; PDF, HTML
Character sets	163, 1 D1, 111ML
Keyboard fonts	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
• USB	Yes
Ethernet	Yes
using external storage medium	No
Process coupling	
• \$7-1200	Yes
• S7-1500	Yes
• \$7-200	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 (MC FOLM)	Yes
OMRON (FINS TCP)	No
OMRON (FINS TCF) OMRON (LINK/Multilink)	Yes
Modicon (Modbus TCP/IP)	Yes
	100

Modicon (Modbus)	Yes
Service tools/configuration aids	
 Backup/Restore manually 	Yes
 Backup/Restore automatically 	Yes
Simulation	Yes
Device switchover	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
Stainless steel	No
Dimensions	
Width of the housing front	454 mm
Height of housing front	289 mm
Mounting cutout, width	434 mm
Mounting cutout, height	269 mm
Overall depth	65 mm
Weights	
Weight (without packaging)	4.4 kg
Weight (with packaging)	5.7 kg
land war difficult	

last modified:

10/7/2021 🖸